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# *City of El Centro Sewer Master Plan Update*

SEPTEMBER 1994

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Prepared for:



CITY OF EL CENTRO  
CALIFORNIA

Prepared by:

inc.  
**ENGINEERING-SCIENCE, INC.**

9404 Genesee Ave. - Suite 140 La Jolla, Ca 92037 (619) 453-9650



September 30, 1994

Mr. Danny Brammer, P.E.,  
Director of Public Works/City Engineer  
City of El Centro  
1275 Main Street  
El Centro, CA 92244

Re: Sewer Master Plan Update

Dear Mr. Brammer:

Attached are five copies and one set of reproducibles of the Sewer Master Plan Update for the City's wastewater collection and conveyance system. The Master Plan identifies capital improvements to the City's sewer system to meet the service requirements of existing and future development within the City.

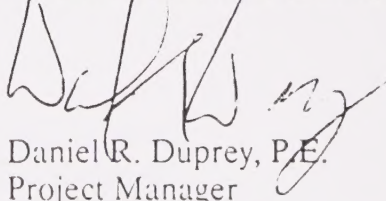
Replacement of the Eastside Lift Station with a higher capacity lift station was identified as a presently needed improvement to the existing system. Upgrading of the capacity of Lift Station No. 3 for additional flows from future development along La Brucherie Road is recommended by the year 1997 to keep pace with growth on the west side of town.

Hydraulic modeling of the sewer system indicates that the City's trunk sewers flow full under peak wet weather flow conditions, with the exception of the trunk sewer in La Brucherie Road. The capacity remaining in the La Brucherie Road trunk sewer is required to serve future development in its dedicated service area. The existing trunk sewer system is therefore not available to serve future development areas outside of the present service area. Additional facilities to serve areas outside of the present service area will be required for future development. These facilities are identified on a conceptual basis in the Master Plan Update.

Please contact us if you have any questions regarding the Sewer Master Plan Update. We have appreciated the opportunity to work with the City in development of this Master Plan Update.

Very truly yours,

ENGINEERING-SCIENCE, INC.



Daniel R. Duprey, P.E.  
Project Manager

DRD:rj





**CITY OF EL CENTRO  
SEWER MASTER PLAN UPDATE**

*prepared for the*

**CITY OF EL CENTRO**

September 1994



*prepared by*

**ENGINEERING-SCIENCE, INC.  
9404 Genesee Avenue, Suite 140  
San Diego, California 92037**

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# CONTENTS

	Page
<b>ABBREVIATIONS</b>	vi
<b>EXECUTIVE SUMMARY</b>	
Section 1 - Introduction	ES-1
Section 2 - Study Area	ES-1
Section 3 - Wastewater Flow Projections	ES-1
Section 4 - Evaluation of Existing Wastewater Collection and Conveyance System Capacity	ES-2
Section 5 - Evaluation of Ultimate Wastewater Collection and Conveyance System Requirements	ES-3
Section 6 - Summary of Recommended Improvements and Cost Estimates	ES-3
 <b>1 INTRODUCTION</b>	
Background	1-1
1987 Master Plan	1-1
1990 General Plan	1-2
Report Objectives	1-2
Scope of Work	1-3
 <b>2 STUDY AREA</b>	
Study Area	2-1
Land Use	2-2
Existing Land Use	2-2
Detailed Land Use Plan	2-2
Phased Growth Plan	2-5
Proposed Annexations	2-5
Population	2-5
Historic Population	2-5
Population Growth in the Study Area	2-5
Physical Characteristics of the Study Area	2-8
Topography	2-8
Transportation	2-8
Groundwater	2-8
Climate	2-8
 <b>3 WASTEWATER FLOW PROJECTIONS</b>	
Wastewater Flow Data	3-1
Unit Flow Factors	3-1
Average Daily Flow Estimates	3-2
Estimated Population Densities	3-3
Peak Flow Rates	3-3





	Page
<b>3</b>	<b>(continued)</b>
Flow Modeling of Existing Development	3-4
Unit Flow Factors for Future Development	3-4
Existing and Ultimate Wastewater Flow Rates	3-6
<b>4</b>	<b>EVALUATION OF EXISTING WASTEWATER COLLECTION AND CONVEYANCE SYSTEM CAPACITY</b>
Sewerage Drainage Basins	4-1
Gravity Sewers	4-1
Lift Stations and Force Mains	4-7
Design Criteria	4-7
Analysis of Existing Wastewater Collection and Conveyance System	4-10
Hydraulic Model	4-10
Evaluation of Gravity Sewer Capacities	4-10
Imperial Avenue Trunk Sewer	4-11
Main Trunk Sewer	4-15
4th Street Trunk Sewers	4-16
Eastside Trunk Sewer	4-16
8th Street Trunk Sewer	4-16
Collector Sewers	4-17
Summary and Recommendations	4-18
Evaluation of Lift Station and Forcemain Capacities	4-18
Main Lift Station	4-19
Eastside Lift Station	4-19
Lift Station No. 3	4-20
Lift Station No. 2	4-20
Wake Avenue Lift Station	4-20
Lift Station No. 1, Gio's Lift Station, Ross Avenue Lift Station, and Heil Avenue Lift Station	4-21
Evaluation of Forcemain Capacities	4-21
Summary of Recommended Lift Station and Forcemain Improvements	4-21
<b>5</b>	<b>EVALUATION OF ULTIMATE WASTEWATER COLLECTION AND CONVEYANCE SYSTEM REQUIREMENTS</b>
Proposed Facilities for Future Development Areas	5-1
Western Development Area	5-2
La Brucherie Trunk Sewer Service Area	5-2
Lotus Canal to Austin Road	5-2
Southern Development Area	5-8
Southeastern Development Area	5-9
Eastern Development Area	5-9
Northeastern Development Area	5-10
Northern Development Area	5-10



	Page
5	(continued)
	Lift Station No. 3 Expansion 5-11
	Summary of Proposed Future Facilities 5-11
	Improvements to Existing Facilities for Ultimate Development 5-11
6	SUMMARY OF RECOMMENDED IMPROVEMENTS AND COST ESTIMATES

APPENDIX A  
APPENDIX B

REFERENCES  
HYDRAULIC MODEL RESULTS





## FIGURES

Figure	Description	Page
2.1	Study Area	2-3
2.2	General Plan Land Use Areas	2-4
2.3	General Plan Phased Growth Areas	2-6
3.1	Flow Source Modeling Existing Land Uses	3-5
4.1	Existing Sewer System Plan	4-2
4.2	Existing Sewer Drainage Basins	4-3
4.3	Schematic of Existing Sewer System	4-4
4.4	Existing Sewer System Capacity Limitations	4-14
5.1	Ultimate Sewer System Plan	5-3
5.2	Ultimate Sewer Drainage Basins	5-4
5.3	Schematic of Ultimate Sewer System	5-5



## TABLES

Table	Description	Page
ES.1	Estimated Costs for Recommended Improvements to Existing Wastewater Collection and Conveyance Facilities	ES-4
ES.2	Estimated Costs for Proposed Future Wastewater Collection and Conveyance Facilities	ES-5
2.1	City of El Centro Historic Population	2-7
2.2	Population Growth Rate Range in the Study Area	2-7
3.1	Unit Wastewater Flow Factors for Computer Modeling	3-2
3.2	Peak Flow Factors	3-4
3.3	Existing Service Area Wastewater Flow Estimates	3-7
3.3	Ultimate Service Area Wastewater Flow Estimates	3-8
4.1	Flow Estimates for Existing Drainage Basins	4-5
4.2	Existing Lift Stations Data	4-8
4.3	Existing Forcemains Data	4-8
4.4	Recommended Design Criteria	4-9
4.5	Existing Trunk and Collector Sewers Flowing Full at PWWF	4-12
4.6	Existing Lift Station Capacity Analysis	4-22
4.7	Existing Forcemain Capacity Analysis	4-22
5.1	Flow Estimates for Ultimate Drainage Basins	5-3
5.2	Summary of Trunk Sewers and Collector Sewers Proposed to Serve Future Development Areas	5-13
5.3	Summary of Lift Stations Proposed to Serve Future Development Areas	5-14
5.4	Summary of Forcemains Proposed to Serve Future Development Areas	5-14
6.1	Estimated Costs for Recommended Improvements to Existing Sewer System	6-2
6.2	Estimated Costs for Future Trunk and Collector Sewers	6-3
6.3	Estimated Costs for Future Lift Stations	6-4
6.4	Estimated Costs for Future Forcemains	6-4
6.5	Summary of Estimated Costs for Future Wastewater Collection and Conveyance Facilities	6-5





## ABBREVIATIONS

ADF	average daily flow
CCI	Construction Cost Index
ENR	Engineering News Record
ES	Engineering-Science, Inc.
ft	feet or foot
gal	gallon
gpad	gallons per acre per day
gpcd	gallons per capita per day
gpm	gallons per minute
hp	horsepower
IID	Imperial Irrigation District
LAFCO	Local Agency Formation Commission
mgd	million gallons per day
psi	pounds per square inch
PVC	poly vinyl chloride
PWWF	Peak Wet Weather Flow
sf	square feet



## EXECUTIVE SUMMARY





## **EXECUTIVE SUMMARY**

### **SECTION 1 - INTRODUCTION**

The Master Plan for the City's sewer system and treatment plant was last updated in 1987. The City has since completed upgrading of the Main Lift Station and is continuing to implement improvements to the treatment plant. This Sewer Master Plan Update has been prepared as a periodic update to: (1) provide a long-range management program and planning tool for the wastewater collection and conveyance system; (2) identify capital improvements necessary to maintain reliable sewer service to existing users; and (3) identify capital improvements necessary to provide sewer service to future development within the City's ultimate service area. This Sewer Master Plan Update pertains to the collection and conveyance facilities; planning for the treatment facilities has proceeded separately.

### **SECTION 2 - STUDY AREA**

The planning area of the City's 1990 General Plan was adopted as the study area for the Master Plan Update. The planning area is bounded by IID's Central Drain on the north, McCabe Road on the south, and Highway 111 on the east. This area extends beyond the City's present sphere of influence on the south and east, but does not extend to the potential limits of the revised sphere of influence east of Highway 111. The ultimate sewer service area was assumed to be the existing City limits, currently proposed annexation areas, and the Phase I and Phase II planning areas. Areas within the General Plan planning area not covered by these areas were assumed to remain undeveloped. For the purposes of this Master Plan Update, a current population of 36,450 and an average annual growth rate of 3.15 percent over a 20 year planning period were established.

### **SECTION 3 - WASTEWATER FLOW PROJECTIONS**

Wastewater flow data available for estimating flow rates in the sewer system consist of total flow to the treatment plant. Over the last two years, the average daily flow to the plant has varied, with monthly averages ranging between 4.8 million gallons per day (mgd) and 6.2 mgd. For the purpose of this Master Plan Update, an average daily flow (ADF) value of 6.0 mgd at the treatment plant was adopted.

Average daily sewage flow estimates for the existing service area were based on a per capita rate of 100 gallons per capita per day (gpcd) for residential development and unit flow rates by area for commercial and industrial development. Average daily flow projections for future service areas were based on population projections and a 165 gpcd total unit flow rate, including flow from commercial and industrial sources. Based on the General Plan ultimate City population estimate of 84,044, the ultimate average daily flow will be approximately 14.0 mgd.



Peak wet weather flow (PWWF) estimates were used to establish peak hour flow rates in the sewer system during wet weather conditions. Peak wet weather flow rates were estimated by applying peak factors to the ADF values. Peak factors were based on typical values for sewer systems in Southern California and, for the existing system, ranged from 2.1 at the treatment plant to 3.1 for the smallest sewer basins. The estimated PWWF at the plant for the existing system is 12.6 mgd; the projected ultimate PWWF is 27.7 mgd.

#### **SECTION 4 - EVALUATION OF EXISTING WASTEWATER COLLECTION AND CONVEYANCE SYSTEM CAPACITY**

The City's existing wastewater collection and conveyance system consists of gravity collector and trunk sewers and lift stations and forcemains. The sewer system presently includes: approximately 84.3 miles of gravity sewers ranging in size from 4- to 30-inch diameter; nine lift stations; and 1.7 miles of forcemains. The treatment plant is located in the northwest corner of the service area. The topography of the area is relatively flat with a northeasterly trending downward grade. Trunk sewers in the major north-south roads transport wastewater north towards the treatment plant. The Main Lift Station pumps sewage from most of the City into the treatment plant. Lift Station No. 3 at the treatment plant site pumps flow from the La Brucherie Trunk Sewer to the plant. The Eastside Lift Station at 3rd Street and Main Street pumps wastewater from east of the railroad tracks to the Main Trunk Sewer which flows to the Main Lift Station. The other six lift stations serve smaller drainage basins and pump to one of the three major lift stations.

A computer model of the existing sewer system was developed using available data for the existing facilities and the flow estimates developed in Section 3. The hydraulic capacity of the existing system was evaluated under peak wet weather flow conditions. The results of the modeling indicated that, with the exception of the trunk sewer in La Brucherie Road, the City's trunk sewers were flowing full at peak flow conditions. The model was also used to confirm that the capacity remaining in the La Brucherie Road Trunk Sewer is required to serve future development in its dedicated service area. The existing trunk sewer system is therefore not available to serve future development areas outside of the present service area.

The sewer system modeling indicated that the Eastside Lift Station does not have adequate standby pumping capacity at peak flows. Considering the condition of this lift station, it is recommended that it be replaced. It was further determined that Lift Station No. 3 will require an expansion in capacity by the year 1997, to keep pace with development in the west side of town.



## **SECTION 5 - EVALUATION OF ULTIMATE WASTEWATER COLLECTION AND CONVEYANCE SYSTEM REQUIREMENTS**

As discussed above, the existing trunk sewer and lift station facilities do not have adequate capacity for future development outside of the present City limits. A north-south aligned trunk sewer along the Lotus Canal is proposed to serve future development in the western and southern areas of the ultimate service area. An east-west aligned trunk sewer is proposed along Bradshaw Avenue to serve future development in the northern and eastern future development areas. Flow from both of these trunk sewers would discharge to existing Lift Station No. 3, which pumps into the treatment plant. Phased expansion of Lift Station No. 3 will be required to accommodate sewage flows from future development.

A future lift station in the vicinity of the existing Wake Avenue Lift Station is proposed to pump flow from future development in the south to the Lotus Canal trunk sewer. This future lift station would replace the Wake Avenue Lift Station. A future lift station is proposed along Evan Hewes Highway near Gillett Road to pump flow from the eastern future development area to the proposed Bradshaw Avenue trunk sewer. A future lift station would also be required along Highway 111 to pump flow from development along the highway corridor to the future Evan Hewes lift station. A fourth future lift station may be required to pump flow from future development in the north-east corner of the ultimate service area across the railroad tracks to the proposed Bradshaw trunk sewer. This lift station could be eliminated if the Main Trunk Sewer and Lift Station can handle flow from this area.

The phasing for expansion of Lift Station No. 3 can be projected based on population growth projections. However, the phasing of future trunk sewer and lift station construction will need to be coordinated with the sequencing of future development.

## **SECTION 6 - SUMMARY OF RECOMMENDED IMPROVEMENTS AND COST ESTIMATES**

Replacement of the Eastside Lift Station is recommended due to age and capacity considerations. Expansion of Lift Station No. 3 by 1997 will be required to serve future development along La Brucherie Road. Estimated costs for these recommended improvements to the City's existing wastewater collection and conveyance facilities are presented in Table ES-1. Table ES-2 summarizes the estimated costs for the proposed facilities to serve future development areas presently outside of the sewer service area.





**Table ES.1**

**Estimated Costs for Recommended Lift Station and Forcemain Improvements**

Lift Station	Pumping Capacity (gpm)	Unit Cost (\$/gpm)	Total Cost (\$1,000)
Replace Eastside Lift Station	2,300	300	\$690
Upgrade Lift Station No. 3	4,000	150	\$600
Total Cost for Replacement of Deficient Lift Stations =			\$1,290

Notes:

(1) ENR Construction Cost Index 6510, April 1994.

(2) Costs include 20 percent contingency and 10 percent for engineering.





**Table ES.2**

**Summary of Estimated Costs for Future Wastewater  
Collection and Conveyance Facilities**

Table	Project	Total
Table 6.2	Total Cost for Future Sewers	\$20,960
Table 6.3	Estimated Cost for Lift Stations	\$4,200
Table 6.4	Estimated Costs for Future Force mains	\$1,114

Total Estimated Costs for Future Wastewater Collection and Conveyance Facilities = \$26,274

Notes:

- (1) ENR Construction Cost Index 6510, April 1994.
- (2) Costs include 20 percent contingency and 10 percent for engineering.



SECTION 1  
INTRODUCTION



## **SECTION 1**

### **INTRODUCTION**

#### **BACKGROUND**

The City of El Centro, incorporated in 1908, is located in the Imperial Valley in Imperial County. Although the City's economy was founded on agriculture, the largest current sectors in the economy are government and the wholesale/retail trade. El Centro has become a regional administrative and commercial center for the county. Between the mid-1940's and 1994, the City's population grew from roughly 11,000 to 36,450, representing a three-fold increase in five decades.

Master planning for the City's wastewater collection, conveyance, and treatment facilities was last performed in 1987. Detailed planning for the wastewater treatment facilities has proceeded and improvements are currently being implemented.

To complement ongoing planning efforts for the City and to accommodate future growth, the City decided to update the master plan for its wastewater collection and conveyance facilities. In December 1993, the City authorized Engineering-Science, Inc. (ES) to update master planning for the wastewater collection and conveyance facilities. Master planning for the wastewater treatment plant facilities was conducted separately from this work.

#### **1987 MASTER PLAN UPDATE**

The master plan for El Centro's sewer system and treatment plant was updated in 1987 by ES Environmental Services (Reference 1). The 1987 Master Plan Update was based on an annual population growth rate of 2.256 percent and an average wastewater unit flow of 151 gallons per capita per day (gpcd).

Collector and trunk sewer improvements recommended in the 1987 Master Plan Update, and the recommended year of the improvements, were to:

- Replace the 8-inch main in 3rd Street from Main Street to the Eastside Lift Station with a 15-inch line (1990);
- Replace the 8-inch main in 3rd Street between Orange Avenue and Main Street with a 12-inch line (1995); and
- Replace the 8-inch main between Villa Avenue and Eucalyptus Avenue from 4th Street to the railroad with a 12-inch line (1996).

The recommended trunk sewer improvements were based on capacity requirements. Implementation of these previously recommended improvements has not yet proceeded.



Lift station improvements identified in the 1987 Master Plan Update, and the recommended year of the improvements, were to:

- Provide a portable emergency generator (1988);
- Refurbish the Main Lift Station (1989); and
- Replace the Eastside Lift Station (1990).

Refurbishment of the Main Lift Station was recommended because of the age and condition of the station and because of capacity limitations; this work was completed in 1992. Replacement of the Eastside Lift Station was recommended due to the age and condition of the facility; this work has not proceeded.

Increasing the capacity of the lift station at Imperial Avenue and Interstate 8 (Lift Station No. 2) was recommended when required for future development south of the freeway. Upgrading the capacity of the lift station which pumps into the treatment plant at the downstream end of the trunk sewer in La Brucherie Road (Lift Station No. 3) was also recommended when required for future development in the western and southern areas.

The 1987 Master Plan Update also recommended that a new lift station and forcemain be provided to divert flow from the trunk sewer in Imperial Avenue to the trunk sewer in La Brucherie Road to relieve capacity on the Imperial trunk. This pumped diversion was recommended as an alternative to replacement of the Imperial trunk sewer due to lower estimated cost and anticipated excess capacity in the La Brucherie Road line.

## **1990 GENERAL PLAN**

The current General Plan for the City was prepared in 1990 (Reference 2). The General Plan recommended a land use program for future expansion of the City in two phases of development. Phase I would occur in already settled areas and in undeveloped areas adjacent to existing development. Once development within Phase I approaches capacity, development would be permitted in contiguous areas during Phase II by City Council action.

This phased growth management program is presently being re-evaluated based on current development plans. One of the factors affecting the ability to accommodate and manage new growth is the capability of the sewerage system to accept wastewater flows from the proposed development. Updating of the sewer master plan will provide information to planners regarding the timing and cost of improvements necessary to accommodate future development.

## **REPORT OBJECTIVES**

The primary objectives of this report are: (1) to provide a long-range wastewater management program and planning tool; (2) to identify capital improvements necessary to maintain service to existing users; and (3) to identify capital improvements necessary to provide service to future development within the City's ultimate sewer service area.





This report provides a comprehensive review and evaluation of the City's wastewater collection and conveyance facility requirements. Both current and projected ultimate development conditions are considered. Wastewater flows were estimated using the land-use element of the City's General Plan and available information on existing development. Computerized analyses of the collection system were performed for both present and ultimate flow conditions. Using the results of the computer analyses, requirements for new facilities have been identified. Associated costs for recommended improvements and for new facilities to serve future development are summarized in tabular format along with approximate dates for required improvements.

## **SCOPE OF WORK**

The scope of work for this Sewer Master Plan Update includes the following major tasks:

- **Task 1 - Definition of Criteria and Study Area.** Preparation of planning criteria assumptions based on 1987 Master Plan.
- **Task 2 - Data Collection.** Collection of existing facility data, land use data, and sewer data. The scope of work specifically excluded field flow measurements, including measurements of infiltration and inflow.
- **Task 3 - Develop Computer Model of Existing System.** Development of a computer-based sewer network model to identify existing facilities with inadequate capacity. The model was confirmed based on treatment plant flow records. An allowance was made for infiltration and inflow based on available data. The City provided information regarding capital improvements needed because of the age and present condition of existing facilities.
- **Task 4 - Ultimate System Planning.** Preparation of an estimate of future sewage flows and performance of evaluations to determine necessary improvements to accommodate ultimate sewage flows.
- **Task 5 - Master Plan Mapping.** Preparation of maps in AutoCADD format, including of the Study Area, existing sewerage system, and ultimate sewerage system.
- **Task 6 - Service Area Plan.** Preparation of a Service Area Plan for the next 20 years in five year increments in accordance with Imperial Local Agency Formation Commission (LAFCO) requirements. (The Service Area Plan has been prepared as a separate document.)
- **Task 7 - Master Plan Report.** A report will be prepared to document the results of the sewer system analysis.



**SECTION 2**  
**STUDY AREA**



## SECTION 2

### STUDY AREA

The City of El Centro is located in the Imperial Valley in Imperial County, California, adjacent to Interstate 8. The City provides sewage collection, treatment, and disposal service within the City limits and will provide sewer service to future annexations. This Section defines the Study Area for sewer master planning purposes and presents information regarding the Study Area population, land use, and other items associated with sewer system planning.

#### STUDY AREA

The Imperial Local Agency Formation Commission (LAFCO) is responsible for establishing the service area boundaries for public agencies in Imperial County. The potential ultimate boundary for an agency is referred to as its "sphere of influence." The City's sphere of influence, established by LAFCO in 1977, covers a total area of 11,568 acres which includes the incorporated area of the City (approximately 4,200 acres) and adjacent unincorporated land (approximately 7,400 acres). Unincorporated portions of the sphere of influence may eventually be annexed to the City. The sphere of influence is bounded by:

- Imperial Irrigation District's Central Drain on the north
- Austin Road on the west
- State Highway 111 on the east
- Interstate 8, Danenberg Road, the City Water Treatment Plant, and Wake Avenue on the south

The City's 1990 General Plan covered areas to the south beyond the sphere of influence. The southern boundary for the General Plan planning area extended to McCabe Road.

The City is preparing to submit a request to LAFCO to extend its sphere of influence. On the south, the revised sphere of influence would extend to McCabe Road consistent with the General Plan planning area, and on the east, it would extend to the section line east of Highway 111. The 2,300-ft expansion east of Route 111 was not included in the 1990 General Plan but is potentially planned as a transportation corridor. The proposed sphere of influence covers an area of 17,500 acres.

The planning area of the 1990 General Plan is adopted as the Study Area for this report and is assumed to correspond to the potential ultimate sewer service area. Expansion of the service area to the east to incorporate the land east of Route 111 not previously considered to be within the City's planning area should be evaluated if the revised sphere of influence is adopted.



Figure 2.1 shows the present city limits, the existing sphere of influence, the 1990 General Plan area, and the Study Area.

## **LAND USE**

### **Existing Land Use**

Existing development within the incorporated portion of the Study Area is comprised of residential, commercial, industrial, and agricultural property. Although about 80 percent of the incorporated area is presently developed, only about 30 percent of the overall Study Area is developed. Existing land use in the Study Area may be characterized as follows:

- The Central Business District includes the major civic uses, government office buildings, and older commercial uses.
- Industrial development is concentrated in the east and southeast portions of the City.
- Multi-family residential developments are found immediately north and south of the Central Business District, west of Imperial Avenue adjacent to Valley Plaza, and north of Adams Avenue.
- Single-family residential developments are located in the southern, southwestern, northern and northwestern portions of the City.

Most of the recent development has occurred on the south and west sides of the City, near Interstate 8. In addition, there has been some recent residential and industrial growth in the southeastern section of the City and some recent commercial growth along Interstate 8. Most undeveloped land in the Study Area is located on the south side of Interstate 8 and east of the present City limits.

Outside the City boundaries, agricultural land use predominates, although new residential development is under construction at the western boundary of the City. Mixed land uses (older commercial, industrial, and residential developments) are found adjacent to the northern and eastern portions of the City. Agricultural uses predominate south of Interstate 8 on the City's southern border.

### **Detailed Land Use Plan**

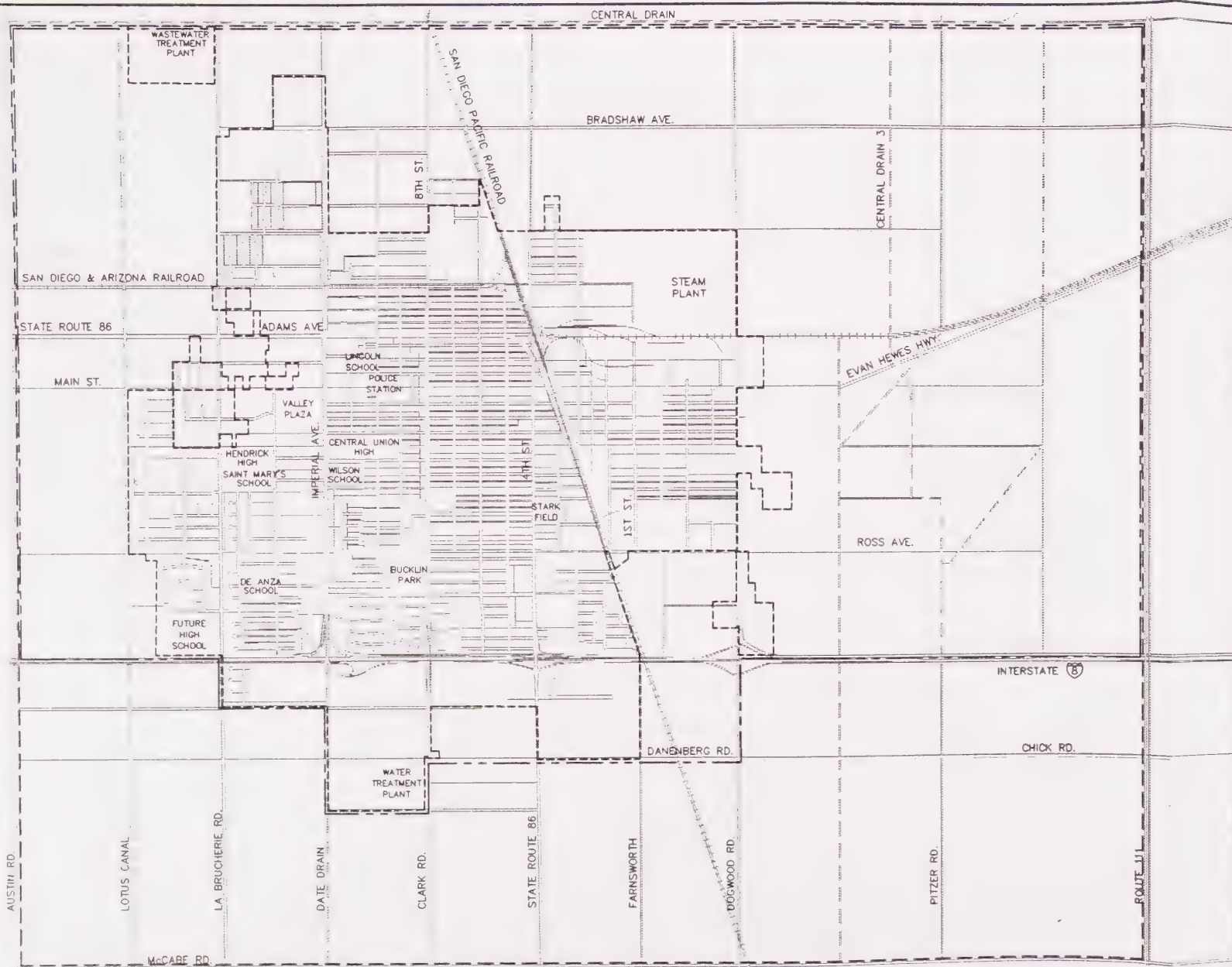
The City is currently conducting an update of the 1990 General Plan, including reconsideration of the Phased Growth Plan. For the purposes of this study, a detailed land use map was developed based on the land use element of the 1990 General Plan and on the current status of the General Plan Update (Reference 4). The land use map developed for this Master Plan is shown on Figure 2.2. Land use designations in the detailed land use plan of Figure 2.2 are the same as those used in the 1990 General Plan.





## Figure 2.1 - Study Area





# LEGEND

- STUDY AREA -----
- SPHERE OF INFLUENCE -----
- CITY LIMITS -----



0 1250 2500

SCALE: 1" = 2500'

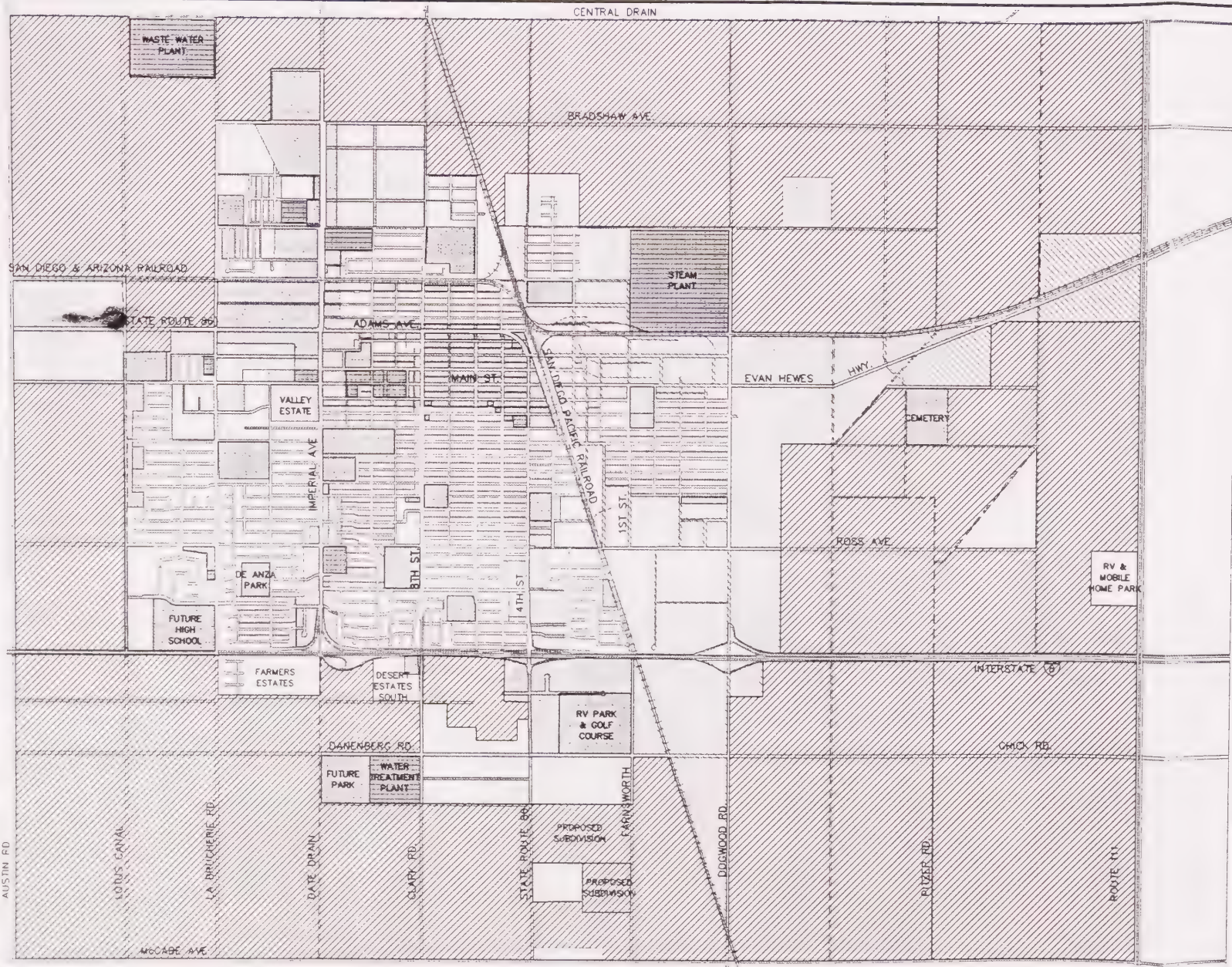
FIGURE 2.1

STUDY AREA









ES ENGINEERING-SCIENCE







# LEGEND

-  RESIDENTIAL
-  MULTI-FAMILY RESIDENTIAL
-  RURAL RESIDENTIAL
-  INDUSTRIAL
-  INSTITUTIONAL/GOVERNMENT
-  PARKS/OPEN SPACE/SCHOOLS
-  COMMERCIAL
-  AGRICULTURE



SCALE: 1" = 2500'

FIGURE 2.2

## GENERAL PLAN LAND USE AREAS

ES ENGINEERING-SCIENCE





## Phased Growth Plan

In the 1990 General Plan, it was proposed that expansion take place in two phases:

- Phase I expansion would occur in already developed areas or in undeveloped areas that are adjacent to existing development. Phase I would accommodate 31,750 additional people.
- As development in Phase I approaches capacity, expansion into contiguous areas (Phase II) would be permitted following appropriate City Council action. Phase II would accommodate 19,700 additional people.

Coupled with limited development and redevelopment within the incorporated portion of the Study Area (1,440 additional people), the Phased Growth Plan would allow an ultimate population increase of 52,890 within the Study Area. Figure 2.3 shows the Phase I and Phase II development areas.

## Proposed Annexations

At the time of preparation of this Master Plan, the City was considering annexation of five areas referred to as the Northwest, West, Southwest, South, and East annexation areas. The total area proposed to be annexed is 2,005 acres. Of these potential annexation areas, the West and Southwest areas presently have sewer service available. However, the majority of the existing development within these areas are not connect to the system. The proposed annexation areas are shown on Figure 2.3 (Reference 3).

## POPULATION

### Historic Population

Historic population data and average annual growth rates for the City are summarized in Table 2.1.

### Population Growth in the Study Area

The 1990 General Plan estimated the ultimate population in the Study Area as follows:

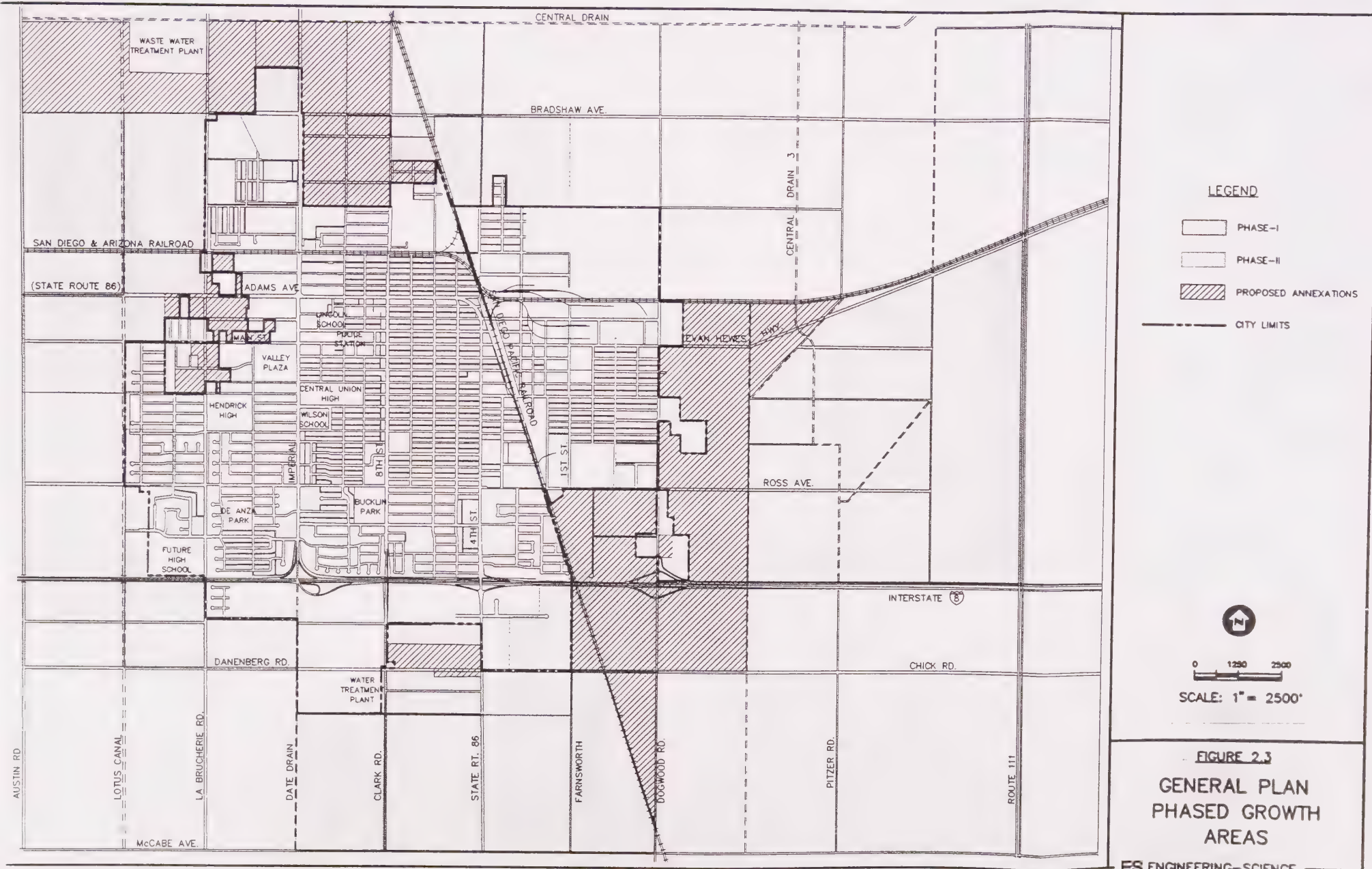
<u>Area</u>	<u>Population</u>
1990 City Population	31,154
Additional Population:	
Within Existing City	1,440
Phase I Growth	31,750
Phase II Growth	<u>19,700</u>
Ultimate Population	84,044





### Figure 2.3 - General Plan Phased Growth Areas







**Table 2.1**  
**City of El Centro Historic Population**

Year	Population	Average Annual Growth Rate (%/year)
1960	16,811	
1970	19,272	1.37
1980	23,996	2.22
1990	31,154	2.64
1994	36,450	5.37

Source: References 2, 5

The 1990 General Plan indicated a wide variation in the future average annual population growth rate in the Study Area between 1990 and 2010, from a low rate between 0 and 1 percent to a high rate of 5.5 percent. Table 2.2 indicates the year that ultimate development would be attained assuming that these average growth rates are maintained.

**Table 2.2**  
**Population Growth Rate Range in the Study Area**

Growth Scenario	Average Annual Growth Rate (%/year)	Year that Ultimate Popu- Population is Reached
No or slow growth	1.00	2078
Moderate growth	2.00	2037
Historical average growth	3.15	2021
Accelerated growth	3.80	2017
Explosive growth	5.50	2010

Note: Growth rate range defined in Reference 2



The Southern California Association of Governments projected the growth rate for El Centro at 3.15 percent based on historical growth patterns (Reference 2). For the purposes of this Master Plan, a growth rate of 3.15 percent and a 20 year planning period have been adopted. Based on the present estimated population 36,450 (Reference 5) and the 3.15 projected growth rate, the projected population of the City in 5 year increments for use in sewer system master planning is as follows:

<u>Year</u>	<u>Projected Population</u>
1994	36,450
1999	42,600
2004	49,700
2009	58,000
2014	67,800

## **PHYSICAL CHARACTERISTICS OF STUDY AREA**

As discussion of features of the Study Area which could affect planning and design of upgrades to the existing sewer system and expansion of the system to serve future development is presented below.

### **Topography**

Topography in the Study Area is relatively flat with a generally uniform slope downward to the northeast at approximately 1.5 ft of elevation for every 1,000 ft of distance (0.15 percent slope). There are no significant drainage features through the Study Area which would affect the design of a sewer system. However, there are a number of water supply and drainage canals and pipelines in the undeveloped portions of the Study Area which will influence the design of sewers to serve future development in the vicinity.

### **Transportation**

Interstate 8 along the southern City limits and the railroads which intersect the City will have impacts on planning for future expansion of the sewer system.

### **Groundwater**

As a result of agricultural irrigation and natural recharge, groundwater levels in the Study Area are within average sewer depths. Dewatering of trench excavations increases the cost of construction of deeper sewers. Sewers below the groundwater table are subject to infiltration of groundwater flow into the sewer through joints and cracks. Infiltration of groundwater increases flow in the sewer and requires additional pipe and pumping capacity.

### **Climate**

Rainfall patterns in the Study Area are typical of Southern California. Inflow of storm water runoff into the sewer system during winter storms causes peak flows in the system. Design capacity for sewers and sewage pump stations is based on estimated peak wet weather flows.





During hot summer weather, water use for landscape irrigation is high. Therefore, the total amount of wastewater returned to the sewer is a lower percentage of the total water use than in milder climates.



**SECTION 3**  
**WASTEWATER FLOW PROJECTIONS**



## SECTION 3

### WASTEWATER FLOW PROJECTIONS

Wastewater flow rate estimates are necessary to establish design quantities for sizing collection and conveyance facilities. Design capacities for sewerage facilities are established based on the peak wet weather flow, which represents the estimated hourly maximum flow rate. Peak wet weather flow rates are estimated using typical peak factors applied to average daily flow rates.

#### WASTEWATER FLOW DATA

Wastewater flow data available for development of average daily unit flow factors consisted of daily flows to the treatment plant. Flow data for the last two years (May 1992 to April 1994) were analyzed. Over the two years, the average daily flow has been 5.7 mgd and the peak day was 9.9 mgd. The average flow in the 12 months prior to April 1993 was 6.2 mgd; however, the average flow in the subsequent 12 months decreased to 4.8 mgd. The average flow has since increased back to approximately 5.5 mgd. There is no apparent reason for the nearly a 25 percent reduction in flow from mid-1993 to mid-1994. However, since average flows appear to be increasing to previous levels, it is recommended that an average flow of 6.0 mgd be used for the purposes of flow modeling for the sewer system. For an average daily flow of 6.0 mgd and a population of 36,450, the gross per capita flow rate (including all sources; residential, commercial, industrial, and government) is 165 gallons per capita per day (gpcd).

#### UNIT FLOW FACTORS

Other than the total flow at the treatment plant, there are no other wastewater flow records available for use in estimating unit flow factors. Flow metering for use in estimating unit flow factors was not performed as part of this Master Plan Update. Therefore, water use records were used in conjunction with the plant flow data for establishing unit flow rates. Estimates of per unit average daily flow (ADF) rates are based on an evaluation of water consumption records and on previously estimated wastewater return rates in the Study Area (Reference 6). Table 3.1 summarizes the unit wastewater ADF rates adopted for use in estimating of wastewater quantities.

Actual residential unit flow rates probably vary by type of development. However, data is not presently available to differentiate unit flows between the residential categories in the City. Any variability in unit flow rates between types of residential development is probably not significant in terms of the results of this Master Plan Update. Flows for commercial and industrial development can vary significantly depending on the type of development. Information on specific types of commercial and industrial development and flow-related quantities is limited. Since commercial and industrial developments in the City are generally in areas contiguous with other commercial and industrial development, use of an average unit flow by area should produce adequate flow estimates.



Table 3.1

## Unit Wastewater Flow Factors for Computer Modeling

Wastewater Source	Unit Flow Factor	
	Value	Units
Residential:		
Residential	100 <sup>a</sup>	gpcd <sup>b</sup>
Multi-family	100 <sup>a</sup>	gpcd
Rural	100 <sup>a</sup>	gpcd
Mobile homes	100 <sup>a</sup>	gpcd
Commercial:	2,500	gpad <sup>b</sup>
Industrial	3,000	gpad
Motel/restaurant	3,000	gpad
Government	2,500	gpad
Schools	3,000	gpad
Hospital	2,500	gpad
Parks	300	gpad

<sup>a</sup> Excluding non-residential flow sources - commercial, industrial, and government; the 165 gpcd unit flow factor includes all sources.

<sup>b</sup> gpcd = gallons per capita per day

<sup>c</sup> gpad = gallons per acre per day

Metering of flows in the system and a detailed inventory of commercial and industrial flow generators could provide data for use in developing more accurate unit flow estimates. The computer model of the system will allow for use of more detailed unit flow rate values in the future as additional information becomes available.

## AVERAGE DAILY FLOW ESTIMATES

For residential areas, the wastewater ADF rate was determined as the product of the residential land use area, population density, and unit flow rate per person expressed gallons per capita per day (gpcd):

$$\text{ADF Rate (gal/d)} = \text{Residential area (acres)} * \text{Population Density (persons/acre)} * \text{Unit Wastewater Flow Rate (gpcd)}$$

Similarly, for non-residential land uses, the ADF rate was estimated as the product of the land use area and the unit wastewater flow for that land use expressed in gallons per acre per day (gpad):

$$\text{ADF Rate (gal/d)} = \text{Land Use Area (acres)} * \text{Unit Wastewater Flow Rate (gpad)}$$





## ESTIMATED POPULATION DENSITIES

Average population densities for residential development were estimated based on the number of units per acre and 3.4 persons per unit (Reference 2). Number of units per acre for single family, multiple family, and rural residential were based on estimates presented in the General Plan and were checked by counting units from aerial photographs within typical areas. Unit density for the two mobile home parks was determined based on actual number of units and acreage. Areas used in estimating population densities and calculating flows were net developed acres, excluding roads and other non-residential acreage. Population densities used for calculation of residential area flow rates are as follows:

Type	Units <sup>a</sup> per net acre	Population per Unit	Population per net acre
Single Family	6	3.4	21
Multi-Family	20	3.4	70
Rural	2	3.4	7
Mobile Homes	7.4	3.4	25

<sup>a</sup> Net area excludes road, parks, and other non-residential acreage; density values for gross acreage would be lower.

## PEAK FLOW RATES

The design of sewer system facilities is based on hydraulic conditions at peak flow. Peak wastewater flow rates are typically estimated on the basis of a "peak factor", defined as the ratio of the peak hourly flow to the average daily flow.

The flow pattern at any point in a sewer system depends on the travel times from the contributing sources. Because of the averaging effect that occurs when flows from individual sub-basins are combined, peak factors typically decrease as the size of the service population increases. Generally, the lowest peak factor in the system occurs at the treatment plant. Daily flow variations typically follow a pattern with peak flows in the mid-morning and early evening.

Peak wet weather flow (PWWF) rates are calculated as the product of the average daily flow rate and a peak factor specific to the area being analyzed, including allowances for wet weather infiltration and inflow. As discussed above, available data on peak flows in the City's sewer system are limited to measurements at the inlet of the treatment plant, which receives flow from two pump stations. Because no specific data on peak flows are available for individual drainage basins, use must be made of relationships between peak hourly flow to average daily flow that have been established at other locations. One such relationship, developed by the City of Los Angeles (Reference 7), has been in use since 1962; this relationship, presented as Table 3.2, is adopted for the purposes of this study to estimate peak wet weather wastewater flows in the City.



**Table 3.2**  
**Peak Flow Factors**

ADF		Peak Factor
(cu-ft/s)	(mgd)	
0.20	0.13	3.10
0.40	0.26	2.90
0.60	0.39	2.80
0.80	0.52	2.75
1.00	0.65	2.70
2.00	1.29	2.50
4.00	2.59	2.35
6.00	3.88	2.25
8.00	5.17	2.15
10.00	6.46	2.05

Source: Reference 7

## FLOW MODELING OF EXISTING DEVELOPMENT

The computer program used to model the sewer system develops flows by multiplying service area times the overlying land use unit flow rate then inputting the resultant flow into the sewer system at the appropriate location. Figure 3.1 shows the land use areas used in the model. The model land use areas are different from the General Plan land use areas in some cases. This is due to the fact that the use categories used in the model combined similar uses for simplicity and because in some cases, actual existing development is not consistent with land use planning.

## UNIT FLOW FACTORS FOR FUTURE DEVELOPMENT

There are no specific land use plans for undeveloped areas within the ultimate service area. The current General Plan land uses shown on Figure 2.2 do not show the full development potential of the area as described in the 1990 General Plan. For the purposes of estimating unit flow factors for future development areas, the following assumptions were made:

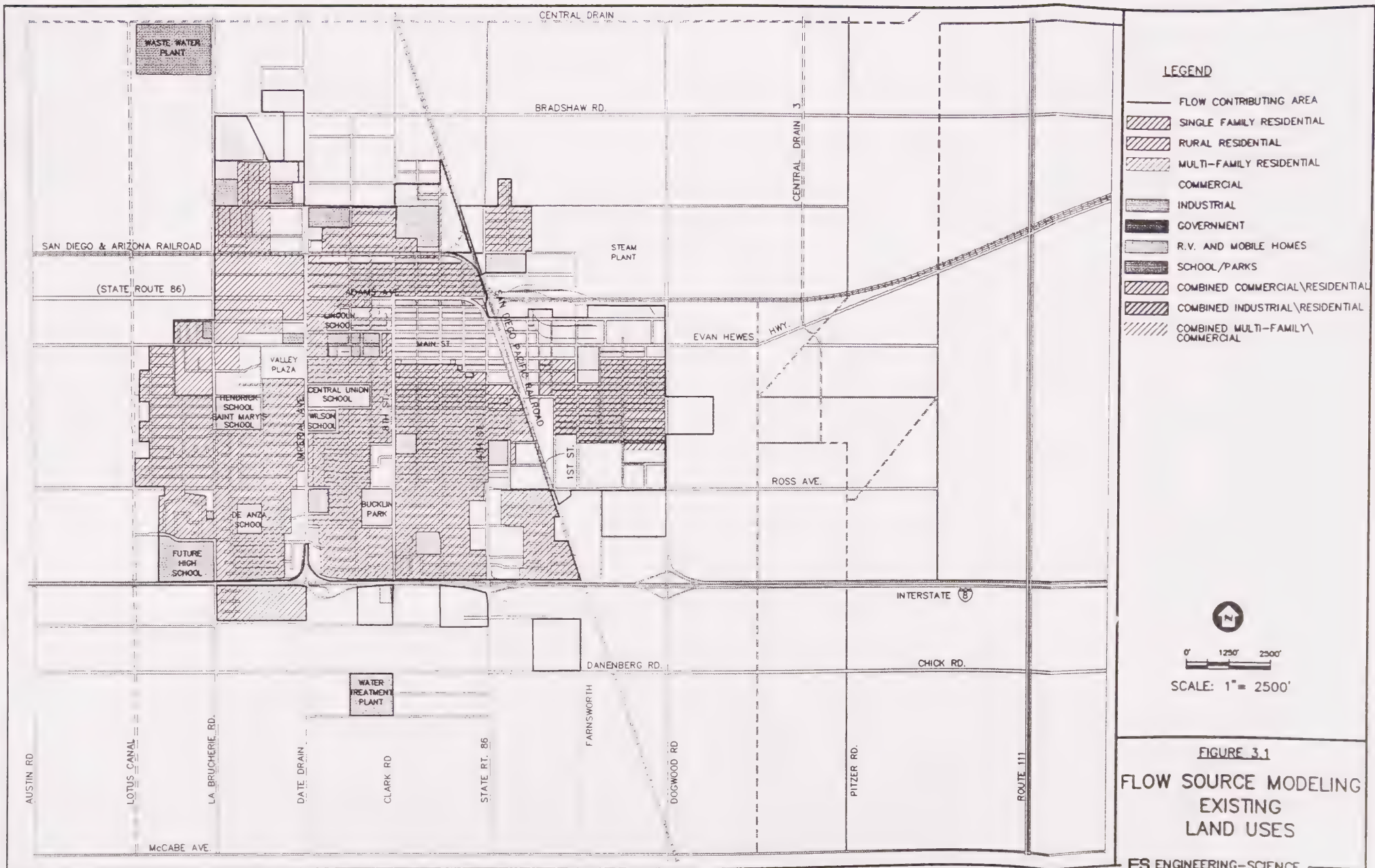
- The future sewer service area will consist of existing incorporated areas, currently proposed annexation areas, and the Phase I and Phase II planning areas.
- Area within the sphere of influence not included in the service area will remain agricultural use and will not be sewerred.
- The population density for the Phase I area will be the total projected Phase I population of 31,750 (Reference 2) divided by the estimated Phase I area of 2,700 acres, or 12 persons per acre.
- Population growth since the 1990 General Plan has occurred within the Phase I area.



### Figure 3.1 Flow Source Modeling Existing Land Uses







# **LEGEND**

- FLOW CONTRIBUTING AREA
- ▨ SINGLE FAMILY RESIDENTIAL
- ▨ RURAL RESIDENTIAL
- ▨ MULTI-FAMILY RESIDENTIAL
- ▨ COMMERCIAL
- ▨ INDUSTRIAL
- ▨ GOVERNMENT
- ▨ R.V. AND MOBILE HOMES
- ▨ SCHOOL/PARKS
- ▨ COMBINED COMMERCIAL/RESIDENTIAL
- ▨ COMBINED INDUSTRIAL/RESIDENTIAL
- ▨ COMBINED MULTI-FAMILY/COMMERCIAL



0' 1250' 2500'

SCALE: 1" = 2500'

**FIGURE 3.1**

**FLOW SOURCE MODELING  
EXISTING  
LAND USES**

**ES ENGINEERING-SCIENCE**



0271-1445424

- The population density for the Phase II area will be the total projected Phase II population of 19,700 (Reference 2) divided by the estimated Phase II area of 3,700 acres, or 6 persons per acre.
- The unit flow factor for Phase I and Phase II areas will be the current gross per capita flow rate of 165 gpcd (including flow from all sources - residential, commercial, industrial, government).
- Areas currently proposed for annexation but not within Phase I or Phase II will be developed at the Phase I density.

#### **EXISTING AND ULTIMATE WASTEWATER FLOW RATES**

Tables 3.3 and 3.4 summarize the estimated wastewater ADF values for existing and ultimate development conditions in the Study Area.



Table 3.3

## Existing Service Area Wastewater Flow Estimates

Land Use Category for Flow Model	Land Use Area (acres)	Sewered Area (acres)	Population Density (persons /acre)	Population (persons)	Unit Sewage ADF Rate	Sewage ADF Rate (mgd)
Residential						
Single Family	1,827	1,226	21	25,740	100 gpcd <sup>a</sup>	2.57
Multiple Family	160	115	70	8,050	100 gpcd	0.81
Rural	74	65	7	460	100 gpcd	0.05
Mobile Homes	118	88	25	2,200	100 gpcd	0.22
Commercial	637	291	-	-	2500 gpad <sup>b</sup>	0.73
Industrial	920	339	-	-	3000 gpad	1.02
Motel/Restaurant	35	21	-	-	3000 gpad	0.06
Government	66	53	-	-	2500 gpad	0.13
Schools	216	115	-	-	3000 gpad	0.35
Hospital	11	10	-	-	2500 gpad	0.03
Park	76	52	-	-	300 gpad	0.02
County Facilities	-	-	-	-	-	0.01 <sup>c</sup>
Other	<u>13,360</u>	<u>-</u>	-	<u>-</u>	-	<u>0.00</u>
Total	17,500	2,372		36,450		6.00

<sup>a</sup> gallons per capita per day<sup>b</sup> gallons per acre per day<sup>c</sup> Input as a point source; rate estimated from water use records.



**Table 3.4**  
**Ultimate Service Area Wastewater Flow Estimates**

Source	Population	Sewage ADF (mgd)
Existing Flows <sup>a</sup>		
Residential	36,450	4.05
Commercial		0.73
Industrial		1.02
Other	—	<u>0.60</u>
Subtotal	36,450	6.00
Future Flows <sup>b</sup>		
Existing City	1,440	0.24
Phase I	26,454 <sup>c</sup>	4.36
Phase II	<u>19,700</u>	<u>3.25</u>
Subtotal	<u>47,594</u>	<u>7.85</u>
Total	84,044	13.85

<sup>a</sup> From Table 3.3

<sup>b</sup> Based on gross unit flow factor (including flow from all sources - residential, commercial, industrial, government) of 165 gpcd.

<sup>c</sup> 1990 General Plan Phase I population less 5,296 population growth since 1990.





## **SECTION 4**

### **EVALUATION OF EXISTING WASTEWATER COLLECTION AND CONVEYANCE SYSTEM CAPACITY**



## SECTION 4

### EVALUATION OF EXISTING WASTEWATER COLLECTION AND CONVEYANCE SYSTEM CAPACITY

In this Section, the existing wastewater collection and conveyance system is described, methods used in analysis of the existing system are reviewed, and improvements required to ensure adequate service to the existing sewer service area are identified. The wastewater collection and conveyance system, illustrated on Figure 4.1, consists of collector sewers, major trunk sewers, lift stations, and forcemains which convey wastewater to the City wastewater treatment plant located in the northwest corner of the service area.

#### SEWERAGE DRAINAGE BASINS

Twenty eight major drainage basins have been identified within the existing sewer service area on the basis of:

- Topography
- Locations of collector sewers, trunk sewers, and lift stations
- Road, railroad, and canal layouts

Figure 4.2 shows the boundaries of the major drainage basins within the existing sewer service area. As discussed in Section 2, the topography of the area is generally flat, with a mild slope of about 1.5 ft/1,000 ft, sloping downward from the southwest to the northeast. In general, the basins are aligned in north-south groupings based on the configuration of the major trunk sewers. Figure 4.3 shows a schematic of the existing drainage basins, trunk sewers, pump stations, and forcemains. Table 4.1 presents data on each basin including average daily flow and peak wet weather flow estimates produced by the computer model in accordance with the parameters described in Section 3.

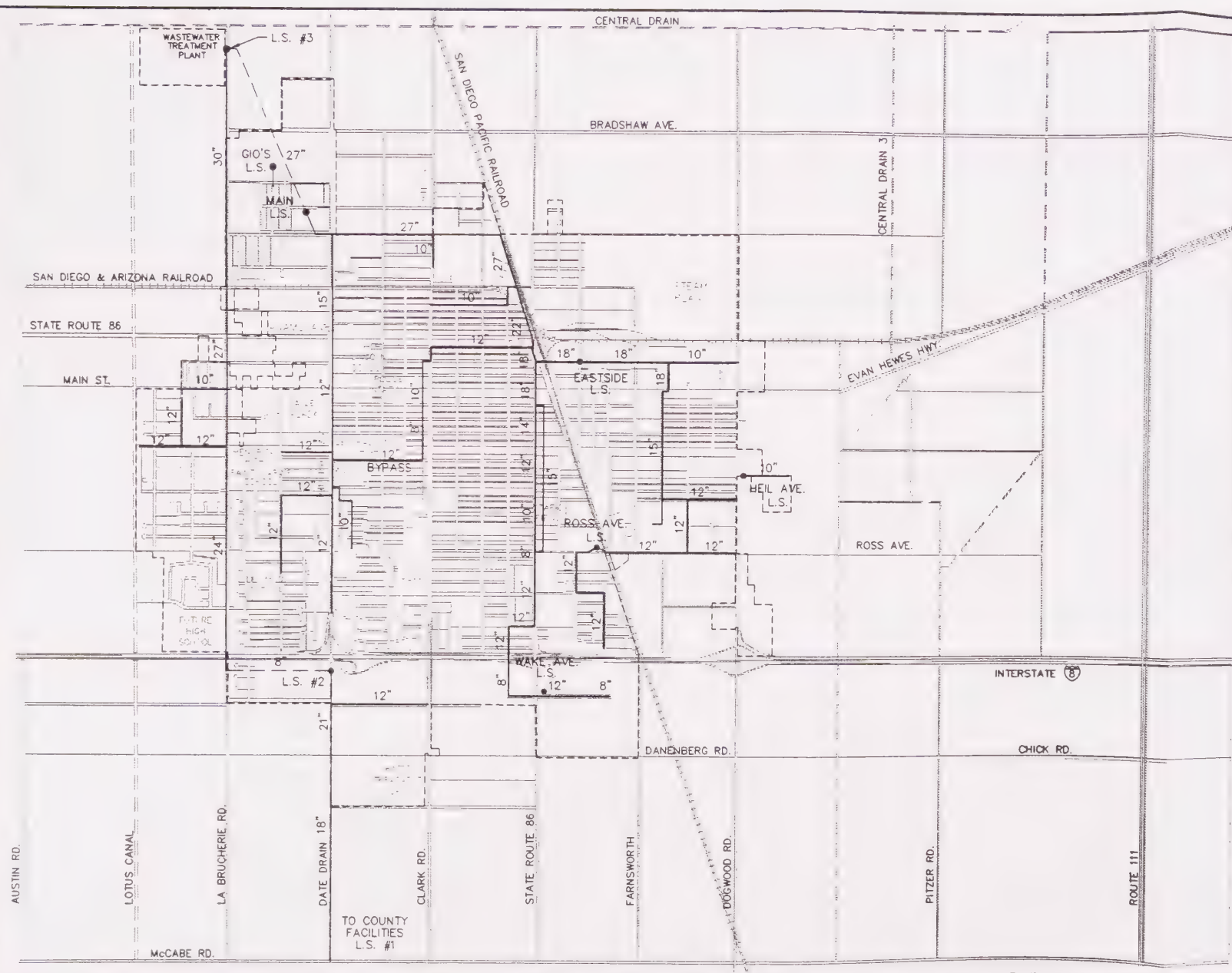
#### GRAVITY SEWERS

The City's sewer system includes approximately 84.3 miles of gravity sewers ranging in diameter from 4- to 30-inch. The collector and lateral sewer mains are generally 8-inch diameter, and trunk sewers typically range from 10- to 27-inch diameter. In total, there are approximately 67 miles of collector and lateral sewers and 17 miles of trunk sewers. Generally, the collector sewers are aligned east-west and carry flow easterly to north-south aligned trunk sewers which carry flow to the north. An interceptor sewer is aligned generally east-west at the north end of the City and receives flow from the south-north trunks and from a forcemain and carries it west to a lift station which pumps into the treatment plant. The oldest pipelines in the system were placed into service in the early 1900s and are typically constructed of vitrified clay. Most of the existing collector sewers were installed after 1950.



Figure 4.1 - Existing Sewer System Plan





# LEGEND

SEWER  
PIPE SIZE

8"-14" \_\_\_\_\_

15"-18" \_\_\_\_\_

21"-30" \_\_\_\_\_

LIFT STATION •

FORCE MAIN - - - - -

CITY LIMITS - - - - -



0 1250 2500

SCALE: 1" = 2500'

FIGURE 4.1

## EXISTING SEWER SYSTEM PLAN

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Figure 4.2 - Existing Sewer Drainage Basins



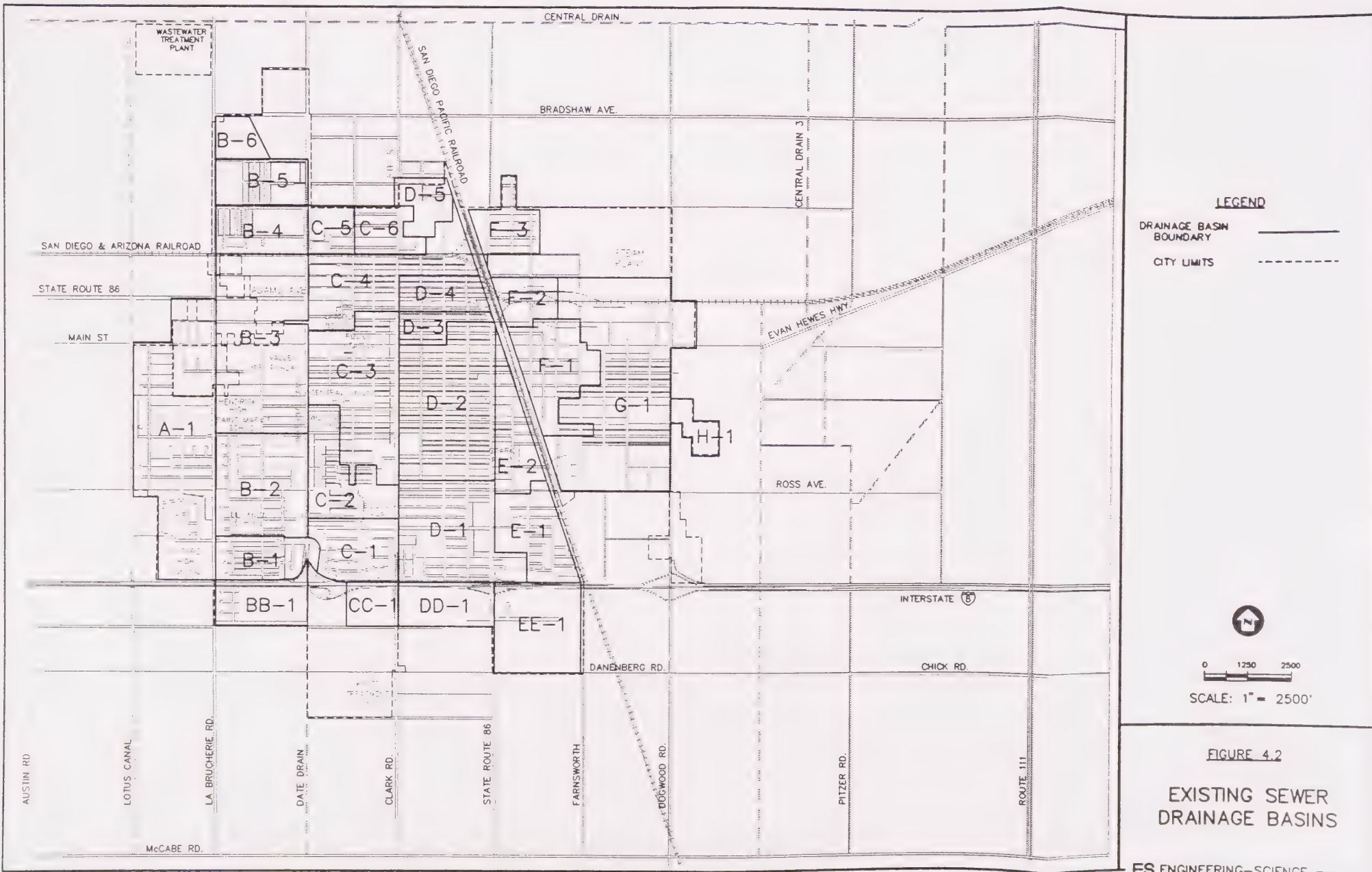


FIGURE 4.2

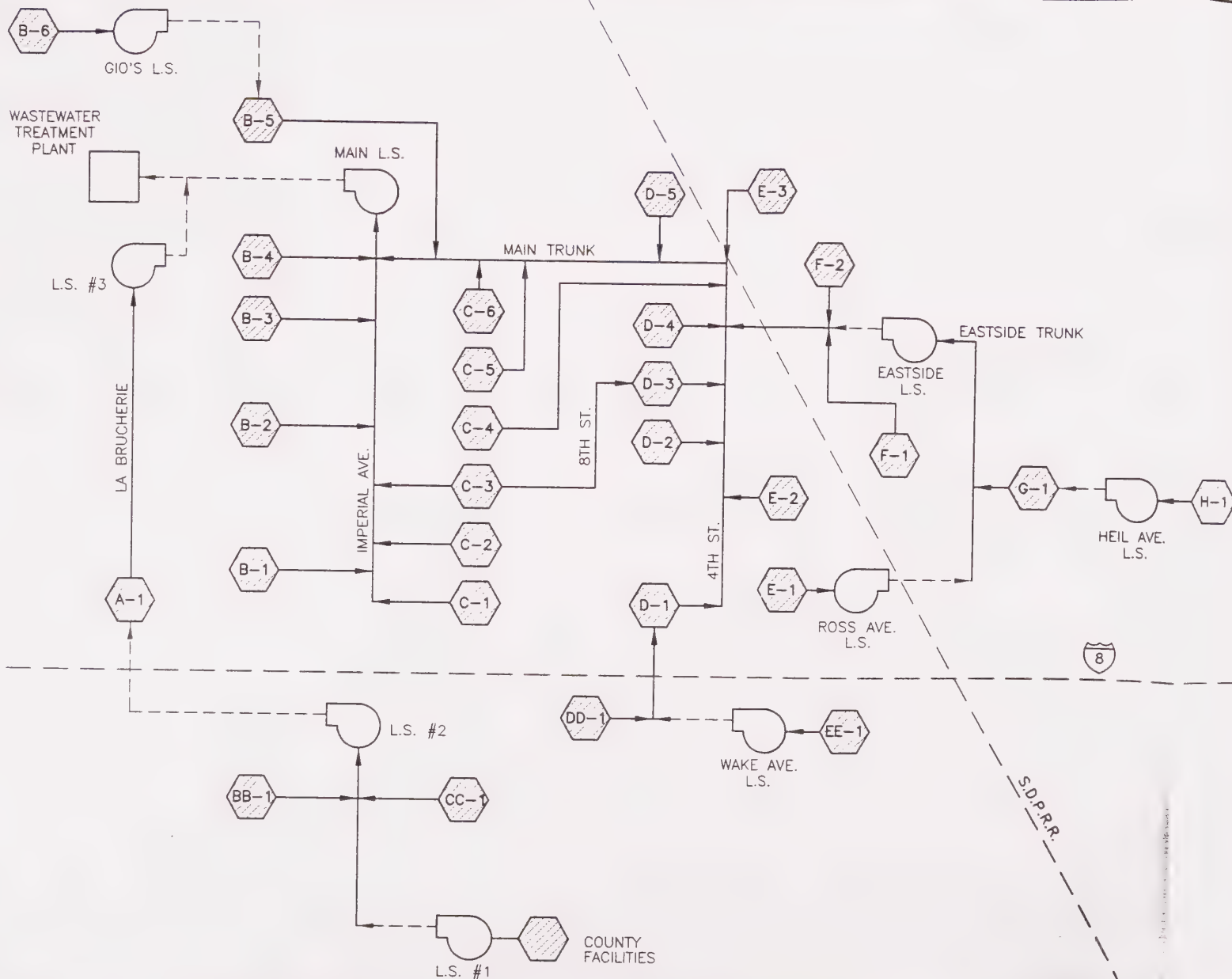
EXISTING SEWER  
DRAINAGE BASINS

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Figure 4.3 - Schematic of Existing Sewer System





# **LEGEND**





-  DRAINAGE BASIN
-  TRUNK SEWER
-  FORCE MAIN
-  LIFT STATION

FIGURE 4.3

SCHEMATIC OF EXISTING  
SEWER SYSTEM

ES ENGINEERING-SCIENCE





**Table 4.1**  
**Existing Flow Estimates for Drainage Basins**

Drainage Basin	Notes	<sup>a</sup>		<sup>b</sup>			Peak Factor	Peak Wet Weather Flow (mgd)
		Net Sewered Area (acres)	Population	Average Daily Flow		Total (mgd)		
				Residential (mgd)	Commercial Industrial (mgd)			
A-1	(1)	259	3,755	0.38	0.27	0.64	2.70	1.74
BB-1		15	319	0.03	0.00	0.03	3.45	0.11
B-1		61	903	0.09	0.05	0.14	3.08	0.44
B-2	(2)	130	4,312	0.43	0.14	0.57	2.73	1.56
B-3	(3)	331	10,644	1.06	0.45	1.52	2.47	3.74
B-4		69	725	0.07	0.09	0.16	3.30	0.54
B-5	(4)	30	2,248	0.22	0.03	0.25	2.91	0.73
B-6		49	1,204	0.12	0.00	0.12	3.14	0.38
CC-1		12	240	0.02	0.00	0.02	3.46	0.08
C-1	(5)	64	2,098	0.21	0.07	0.28	2.88	0.81
C-2		99	1,137	0.11	0.07	0.19	3.10	0.57
C-3		175	1,992	0.20	0.16	0.36	2.82	1.02
C-4		116	2,542	0.25	0.13	0.39	2.80	1.08
C-5		17	221	0.02	0.02	0.04	3.44	0.13
C-6		48	734	0.07	0.04	0.11	3.18	0.36
DD-1	(6)	19	1,035	0.10	0.07	0.17	3.06	0.52
D-1	(7)	119	2,063	0.21	0.27	0.48	2.89	1.38
D-2	(8)	170	6,083	0.61	0.43	1.04	2.58	2.68
D-3	(9)	103	1,992	0.20	0.23	0.43	2.78	1.19
D-4		31	403	0.04	0.02	0.06	3.45	0.22
D-5		12	827	0.08	0.00	0.08	3.32	0.27
EE-1		42	1,035	0.10	0.00	0.10	3.22	0.33
E-1		59	1,428	0.14	0.01	0.16	3.06	0.48
E-2	(10)	76	2,969	0.30	0.58	0.88	2.63	2.32
F-1		98	477	0.05	0.18	0.23	2.94	0.68



**Table 4.1**  
**Existing Flow Estimates for Drainage Basins**

Drainage Basin	Notes	<sup>a</sup>		Average Daily Flow			<sup>b</sup>	
		Net Sewered Area (acres)	Population	Residential (mgd)	Commercial Industrial (mgd)	Total (mgd)	Peak Factor	Peak Wet Weather Flow (mgd)
F-2		11	0	0.00	0.03	0.03	3.45	0.11
F-3		35	729	0.07	0.00	0.07	3.36	0.24
G-1	(11)	292	3,210	0.32	0.70	1.02	2.58	2.64
H-1		<u>14</u>	0	0.00	0.04	0.04	3.44	0.14
Totals	(12)	2,549	36,450	3.65	2.36	6.00	2.10	12.60

a Excludes roads.

b Peak hourly flow.

Notes:

- 1 Includes County Facilities, BB-1, CC-1
- 2 Includes C-1
- 3 Includes B-2, C-2
- 4 Includes B-6
- 5 Includes B-1
- 6 Includes EE-1
- 7 Includes DD-1
- 8 Includes E-2
- 9 Includes C-3
- 10 Includes D-1 and part of D-2
- 11 Includes E-1, H-1
- 12 Total flow into treatment plant includes all basins. Only total Net Sewered Area is the sum of individual basins.



Diameter, slope, material, and elevation data for the existing sewers were provided by the City. As described below, these data were used to develop a computer model used for evaluation of the existing collection and conveyance system.

## **LIFT STATIONS AND FORCEMAINS**

The City's sewer system includes three major lift stations and six minor lift stations and 1.7 miles of forcemains ranging in diameter from 4- to 27-inch. The lift stations vary in capacity, age, and type of construction and can be grouped in three categories:

1. The Main Lift Station is of cast-in-place concrete construction, with a separate wet well, dry well, and motor room.
2. The Eastside Lift Station is a circular lift station incorporating a dry well in one half of the circular ring and a wet well in the other half.
3. All of the other lift stations are pre-fabricated type with a steel or fiberglass housing for the mechanical and electrical equipment and a separate concrete wet well.

Table 4.2 present data for the various lift stations and Table 4.3 presents data for the forcemains.

With the exception of the Main Lift Station, each lift station has two pumps. These pumps operate in a lead/lag mode; if the lead pump cannot handle the flow volume, the lag pump is started. The rated capacity of these lift stations is based the capacity of one pump, with the second pump considered a standby pump. The actual pumping capacity of the lift stations with both pumps running is higher than the rated capacity, although it is less than twice the capacity of each pump due to higher discharge heads at higher forcemain flow rates. Designating one of the lead/lag pumps as a standby is considered necessary to provide adequate redundancy in the event one pump is taken out of service for maintenance or repair or if one pump fails.

For the Main Lift Station, the rated capacity is based on one of the two larger capacity pumps being designated as a standby unit. This pump then acts as a standby for the other larger pump and for the two smaller capacity pumps. On this basis, the rated capacity of the Main Lift Station is 8,700 gpm.

## **DESIGN CRITERIA**

Recommended design criteria for sewers, lift stations, and forcemains are presented in Table 4.4. These criteria are for use in evaluating the existing facilities as described in this Section and for planning of expansion facilities to serve existing development as discussed in Section 5.



Table 4.2

## Existing Lift Stations Data

Lift Station	Year Installed or Upgraded	Type	Number of Pumps	Individual Motor Size (hp)	Rated Capacity per Pump (gpm)
Main Lift Station	1992	Built-in-place	2	35	1,800
			2	75	5,100
Eastside Lift Station	1963	Built-in-place	2	35	1,000
Lift Station #1	1975	Pre-fabricated	2	5	400
Lift Station #2	1975	Pre-fabricated	2	5	400
Lift Station #3	1976	Pre-fabricated	2	15	1,500
Wake Avenue Lift Station	1976	Pre-fabricated	2	7.5	200
Gio's Lift Station	1983	Pre-fabricated	2	3	200
Ross Avenue Lift Station	1986	Pre-fabricated	2	5	325
Heil Avenue Lift Station	1994	Pre-fabricated	2	3	250

Table 4.3

## Existing Force mains Data

Lift Station	Force main Diameter (inch)	Length (ft)	Year of Installation	Material
Main Lift Station	27	4,830		concrete
Eastside Lift Station	10	150	63	cast iron
Lift Station #1	6	250	75	cast iron
Lift Station #2	8	2,880	78	cast iron
Lift Station #3	8, 12	50	77	cast iron
Wake Avenue Lift Station	4	200	76	cast iron
Gio's Lift Station	4	10	83	cast iron
Ross Avenue Lift Station	4	260	86	ABS
Heil Avenue Lift Station	6	150	94	PVC





**Table 4.4**  
**Recommended Design Criteria**

Facility	Design Criteria
Sewers: <sup>a</sup>	
Minimum velocity	2 ft/sec
Manning's roughness coefficient	0.013
Design flow depth	
8- through 12-inch diameter	1/2 pipe diameter
Larger than 12-inch diameter	3/4 pipe diameter
Minimum slope (ft/ft):	
8-inch diameter	0.0040
10-inch diameter	0.0030
12-inch diameter	0.0022
15-inch diameter	0.0015
18-inch diameter	0.0012
21-inch diameter	0.0010
24-inch diameter	0.0009
27-inch diameter and larger	0.0008
Lift Stations:	
Minimum number of pumps	2
Minimum capacity	Duty pumps capable of handling peak flow
Standby pump capability	100 percent of largest pump capacity
Forcemains:	
Minimum Velocity	3 ft/sec
Hazen-Williams Coefficient	100

<sup>a</sup> Reference 7



The recommended design criteria for minimum sewer slope is based on maintaining a minimum self-cleansing flow velocity in the sewer (Reference 7). Due to the flat topography of the service area, most of the sewers have been constructed at slopes between 0.15 percent to 0.2 percent. While this range of slopes is acceptable for larger sewers, it may not provide adequate velocities for sewers in the range of 6- to 10-inch diameter. The evaluation of the City's existing sewer system considered the fact that velocities less than normally acceptable limits are unavoidable or impractical to correct in many cases, and that if necessary, a higher level of cleaning maintenance of these lines is acceptable.

## **ANALYSIS OF EXISTING WASTEWATER COLLECTION AND CONVEYANCE SYSTEM**

### **Hydraulic Model**

Evaluation of the existing wastewater collection and conveyance system was performed using the Hydra Storm and Sanitary Sewer Analysis Software developed by Pizer, Inc. (Reference 8). The HYDRA model was developed using two other software products from Pizer, HydraGraphics and GISMaster. GISMaster works in conjunction with AutoCAD to graphically form a geographical information system. The HydraGraphics program provides a graphical approach to the analysis of sanitary sewer systems using visual imagery for such activities as: inputting and editing data; adding flow points; reviewing results; and creating color coded maps. The program models pump stations and forcemains and can use inflow hydrographs to model flow into the system over time at each manhole.

The purpose of hydraulic modeling of the existing sewer system was to identify any deficiencies in sewer capacity and to recommend improvements to upgrade the system to satisfy current design standards. The recommended improvements will be evaluated in conjunction with recommendations developed in Section 5 for improvements to serve future development within the ultimate sewer service area.

All sewers 6-inch in diameter and larger and all manholes are included in the model. Each section of sewer between two manholes (referred to as a link) was assigned a number, upstream and downstream invert and ground elevations, and pipe size. Flow conditions and hydraulic capacity were calculated for each link. Pump stations are modeled based on capacity of each pump and number of pumps operating. The results of the hydraulic modeling for each link are provided in Appendix B.

### **Evaluation of Gravity Sewer Capacities**

As discussed in Section 3, the hydraulic analysis of the existing sewer system was based on peak wet weather flow conditions. In accordance with Table 4.4, the hydraulic design parameter for gravity sewers is based on the pipe flowing half full or 75 percent full depending on pipe size. For evaluation of the existing sewer system, the sewer capacity limitation was established as 95 percent of full flow under peak wet weather flow conditions. The flow depth limit was set at 95 percent partly because of the relative flat slopes of the existing sewers as discussed above.



The results of the hydraulic modeling of the existing system indicate that, with the exception of the La Brucherie Trunk Sewer, the existing trunk sewers would be flowing at greater than 95 percent full under peak wet weather flow conditions. The model also indicated that some segments of existing collector sewers would also be flowing at more than 95 percent full during peak wet weather flows.

Table 4.5 lists the sewers which were indicated as having peak wet weather flow capacity limitations and Figure 4.4 shows their locations. The links which exceeded the 95 percent flow depth limit are listed in Appendix B. For some of the sewer segments listed in Table 4.5 and shown on Figure 4.4, not all of the individual links in the total length exceeded the 95 percent flow depth limit. For practical reasons, the total length of sewer was considered to be at capacity when most of the links in a section exceeded 95 percent of full flow. Each of the sewers listed in Table 4.5 is discussed in detail below.

Table 4.5 also lists the size of sewer which would be required for a maximum peak wet weather flow depth of 75 percent of full flow. The pipe size listed for the 75 percent flow depth is based on maintaining the existing sewer slope even though, in most instances, this slope will be lower than the minimum recommended sewer slope indicated in Table 4.4. The 75 percent flow depth sewer size shown in Table 4.5 is for existing flow conditions and is an indication of the requirements for replacement of the existing sewer if replacement is determined to be necessary. If replacement is necessary, the actual replacement sewer size and the potential for construction of a parallel sewer instead of abandonment of the existing sewer should be evaluated at the detailed design stage. Although not listed, the computer model also calculated appropriate diameters for parallel sewers. In most cases, the parallel line was one pipe diameter smaller than the replacement line size.

#### **Imperial Avenue Trunk Sewer**

This trunk sewer serves existing development between La Brucherie Road and 8th Street in drainage basins B-1, B-2, B-3, C-1, and C-2 (see Figures 4.1 and 4.2). Most of this area is fully developed and it is not proposed that this trunk sewer serve future development areas south of Interstate 8.

Flow in the 12- and 15-inch diameter Imperial Avenue Trunk Sewer was shown to be exceeding the capacity criteria for nearly the entire length of Imperial Avenue; from the connection to the 30-inch diameter Main Trunk Sewer to the vicinity of Aurora Avenue. This condition was identified in the 1987 Master Plan and was confirmed by visual inspection and depth of flow measurement during the preparation of this Master Plan Update. Replacement of the Imperial Avenue Trunk Sewer would involve construction of a 15- to 24-inch diameter pipeline from the Main Trunk to Ocotillo Drive; a total length of approximately 8,800 ft.

As an alternative to high cost and traffic difficulties associated with replacement of the Imperial Avenue Trunk Sewer, the 1987 Master Plan recommended that a pump station and forcemain be provided to divert flow from upstream of the capacity-limited segment to the La Brucherie Trunk Sewer, which presently has available capacity. The pump station would be sited to divert only as much flow as necessary to: alleviate the downstream capacity constraint; minimize capital,





**Table 4.5**  
**Existing Trunk and Collector Sewers Flowing Full at PWWF**

No.	Sewer		Existing Sewer			Replacement Sewer (1)		
	Name	Location	Dia. (in.)	Length (ft)	Average Slope (ft/ft)	Dia. (in.)	Length (ft)	Average Velocity (2) (ft/s)
1	Imperial Avenue Trunk Sewer	Villa Avenue to Ocotillo Drive	15	3,724	0.0020	24	3,724	2.6
			12	5,050	0.0017	21	2,417	2.6
						15	2,633	2.0
2	Main Trunk Sewer	Main L.S. to Eastside L.S.	27	8,069	0.0011	36	1,052	3.6
						33	7,017	3.0
			22	618	0.0018	30	618	2.9
			18	1,083	0.0004	27	1,083	1.7
3	4th Street Trunk Sewer	Commercial to Driftwood	18	759	0.0013	21	759	2.4
			15	3,961	0.0013	21	1,884	2.0
						18	2,077	1.9
			12	2,034	0.0019	15	2,034	2.3
4	8th Street Trunk Sewer	4th Street to	12	3,229	0.0020	15	3,229	2.1
		8th Street to	10	1,147	0.0021	12	1,147	2.1
		Hamilton Avenue	8	1,819	0.0018	12	1,819	1.5
5	Eastside Trunk Sewer	Eastside L.S. to Ross Avenue	18	3,609	0.0018	24	2,892	2.0
						21	520	2.3
			15	2,261	0.0018	21	1,123	2.3
						18	1,138	2.5
			12	288	0.0028	18	224	1.6
						15	1,755	2.6
6	Collector Sewers							
	a. 3rd Street	Eastside L.S. to Brighton	8	1,913	0.0018	12	1,913	1.8





Table 4.5 (continued)

No.	Sewer		Existing Sewer			Replacement Sewer (1)		
	Name	Location	Dia. (in.)	Length (ft)	Average Slope (ft/ft)	Dia. (in.)	Length (ft)	Average Velocity (2) (ft/s)
6	b. 5th Street	I-8 south to Wake Avenue	8	1,505	0.0016	12	1,505	1.5
	c. Aurora Dr.	Imperial Trunk Sewer to Ocotillo Drive	8	1,949	0.0014	10	1,949	1.4
	d. Main Street	Imperial Trunk Sewer west	8	2,250	0.0017	12	2,250	1.5
	e. Villa Drive	Main Trunk Sewer east	8	1,158	0.0020	10	1,158	1.4
	f. Pico Avenue	Imperial Avenue Trunk Sewer east to Mobile Home Park	8	1,907	0.0020	12	1,907	1.6
	g. Ocotillo	Imperial Trunk Sewer west	8	587	0.0028	10	587	1.4

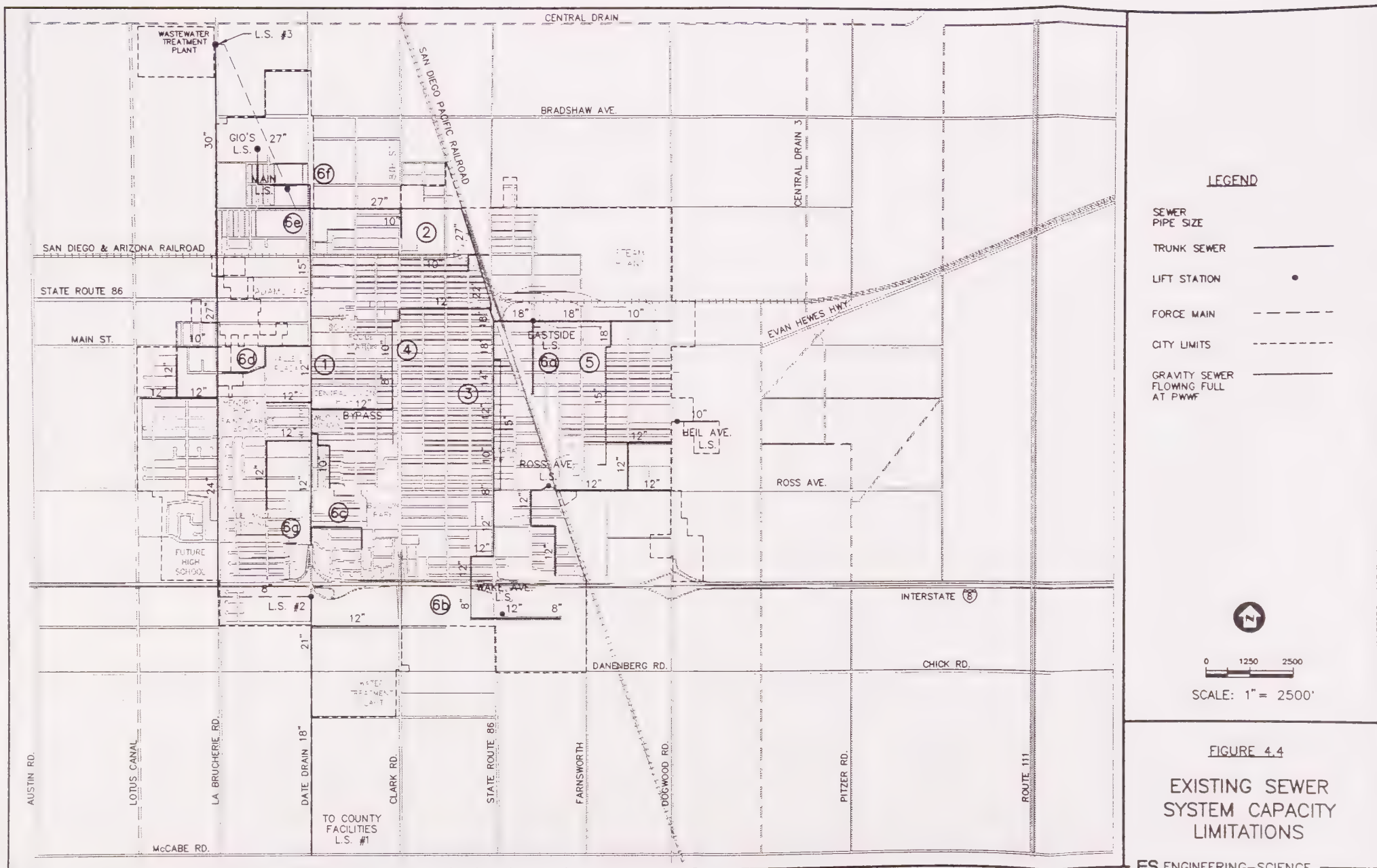
Note:

1. Replacement sewer data provided for reference only.
2. Average velocity over length at peak design flow



**Figure 4.4 - Existing Sewer System Capacity Limitations**







operations and maintenance costs of the pump station; and maximize use of the existing Imperial Avenue Trunk Sewer. However, based on the results of the current analysis, there is no point of the line at which significant diversion could occur without leaving the upstream length over-capacity. Therefore, as much as 50 percent of the line would still exceed the capacity limitation even with a diversion pump station.

As discussed in Section 5, the La Brucherie Trunk Sewer is planned to serve future development in the western and southern (west of Clark Road) areas of the City's sphere of influence. In addition, the City is obligated to provide capacity in this trunk sewer to the county. The ability of the La Brucherie Trunk Sewer to handle diverted flow from Imperial Avenue must be evaluated in terms of future capacity requirements. Based on the ultimate sewer system requirements described in Section 5, the capacity of the La Brucherie Trunk Sewer is fully committed to its existing service area. Diversion of flow from the Imperial Avenue Trunk Sewer to the La Brucherie Trunk would require reallocation of the capacity of the La Brucherie Trunk Sewer.

As further discussed in Section 5, a future trunk sewer is proposed along the Lotus Canal. This trunk sewer could be sized to handle diverted flow from the Imperial Avenue Trunk Sewer, or diverted flow from the La Brucherie Trunk Sewer which would free capacity in that line for diverted flow from Imperial.

### **Main Trunk Sewer**

The Main Trunk Sewer receives flow from nearly all of the area east of Imperial Avenue, which encompasses the majority of the City. All drainage basins flow to the Main Trunk Sewer, except Basins A-1, BB-1, and CC-1 which flow to Lift Station No. 3 through the La Brucherie Trunk Sewer. The Main Trunk Sewer could also potentially serve future development in the east and southeast areas of the City's sphere of influence.

Computer modeling of the system indicates that much of the 18- to 30-inch diameter Main Trunk Sewer from the Main Lift Station to the Eastside Lift Station is flowing full under peak wet weather flow conditions. Visual inspection during dry weather peak flow conditions confirmed that the flow depths in this trunk are relatively high and that some flat sections are flowing nearly full.

The Main Trunk Sewer receives pumped flow from the Eastside Lift Station, which serves the area east of the railroad tracks. Construction of a forcemain from the lift station to the treatment plant would reduce the flow in the Main Trunk Sewer and would provide a means to convey flow from future development in the east to the treatment plant. However, as long as the Main Trunk is not required to serve future development areas, its capacity should be adequate without the need to divert flow directly to the treatment plant. The option of pumping directly from the Eastside Lift Station to the treatment plant is discussed further as part of the evaluation of the lift stations.





#### **4th Street Trunk Sewers**

The trunk sewers in 4th Street serve the area between 8th Street and the railroad tracks, generally south of Commercial Avenue, except for the area east of 4th Street and south of Ross Avenue which is pumped to the eastside basin. These trunk sewers also receive flow from the mobile home park and a commercial area south of Interstate 8 via an 8-inch diameter freeway crossing at 5th Street. The basins which flow to the 4th Street Trunk Sewers are Basins DD-1, D-1, D-2, EE-1, and E-2. The 4th Street Trunk Sewers could potentially be required to serve future development in the southeastern portion of the sphere of influence.

The results of the hydraulic modeling indicate that the 4th Street Trunk Sewers presently are near the capacity limitation through the length from the connection to the Main Trunk Sewer to Ocotillo Drive. From a point between State Street and Main Street to Ross Avenue, the sewer consists of two parallel lines. The eastern sewer ranges in size from 8- to 14-inch diameter and has a flatter slope than the western sewer which ranges from 12- to 18-inch diameter. At the downstream end, the parallel sewers share the same invert elevation; but at the upstream end, the eastern sewer invert is about 4 ft deeper. At each lateral sewer connection, there is a cross connection between the two parallel lines. Because the eastern line is lower, the model indicated that it receives most of the flow. In reality, when the lower sewer became overloaded, it would be surcharged and flow would be diverted to the upper sewer as the surcharge level increased. The model was modified to split the flow between the two sewers to evaluate the combined capacity; however, the model still showed that the sewers were approaching the capacity limit.

Flow depths in these sewers determined from visual inspection by City staff during dry weather peak flow periods were not as high as predicted by the hydraulic model. However, on the basis of the model results and a review of the drainage basin size and pipe sizes and slopes, it is expected that there is not capacity available in these lines to serve future southern development areas outside of the present City limits.

#### **Eastside Trunk Sewer**

The Eastside Trunk Sewer serves the area to the east and south of the railroad tracks and also receives pumped flow from the Ross Avenue Lift Station and the Heil Avenue Lift Station. The hydraulic analysis indicated that this trunk sewer is flowing full from the Eastside Lift Station to Ross Avenue. This trunk sewer may receive flow from future connections of existing and planned industrial development to the east and south of the current drainage basin limits.

#### **8th Street Trunk Sewer**

The 8th Street Trunk Sewer runs northerly on the west side of 8th Street to a point immediately north of Commercial Avenue, where its alignment changes to the east. The sewer continues in an easterly direction to its connection to the Main Trunk Sewer. The 8th Street Trunk Sewer generally serves the central region of the City. Although it receives some flow from the water treatment plant south of



Interstate 8 through a 6-inch diameter sewer, it is not proposed to serve future development south of the freeway. The hydraulic analysis indicates that the 8th Street Trunk Sewer is exceeding the 95 percent flow depth capacity limit for most of its length, from the Main Trunk Sewer connection to a point north of Heil Avenue.

An existing diversion manhole on the 8th Street Trunk Sewer at Holt Avenue could be used to divert some flow to the Imperial Avenue Trunk Sewer through the 12-inch diameter sewer in Holt Avenue. Because the invert of the diversion pipe at this manhole is the same as the invert of the main line, the hydraulic model was initially run based on an equal flow split. If all flow were diverted to the Imperial Avenue Trunk Sewer, capacity requirements for the 8th Street Trunk Sewer would be reduced; however, some sections would still near capacity based on the model. As discussed above, the Imperial Avenue Trunk Sewer is also at capacity and would not be able to handle additional flow diverted from 8th Street. If flow in the Imperial Avenue Trunk Sewer is reduced by diversion to the La Brucherie Road Trunk Sewer at some time in the future, consideration should be given to diverting all flow from Drainage Basin C-3 south of Holt to the Imperial Avenue Trunk Sewer. This diversion would relieve capacity on the 8th Street Trunk.

### **Collector Sewers**

All existing sewers 6-inch diameter and larger were included in the hydraulic model. In most cases, collector and lateral sewers are 8-inch diameter, with some older 6-inch diameter lines and some 10-inch diameter collector lines. Collector and lateral sewers identified in the computer modeling as exceeding the 95 percent capacity limit are listed in Table 4.5, are shown on Figure 4.4, and are discussed below.

**3rd Street Collector (6a).** The 8-inch diameter collector in 3rd Street was determined to have capacity limitations from its terminus at Commercial Street to Brighton Avenue. This sewer was also identified in the 1987 Master Plan Update as potentially being overloaded, although only to Olive Street. However, recent field inspection by City staff revealed minimal flow in this line. This sewer serves an industrial area. The quantity of wastewater flows produced in industrial areas can vary significantly depending on the type of industry. Apparently, changes in the type and/or level of activity in this area have resulted in a reduction in flow. Based on the results of the field inspection, replacement of the 3rd Street collector sewer is not required.

**5th Street Freeway Crossing (6b).** An 8-inch diameter collector sewer crosses Interstate 8 and conveys flow from the mobile home park and commercial areas to the south. The model indicated that this line is slightly overloaded. This sewer is intended to serve additional future development in the commercial area. Its ability to serve the commercial area is limited based on the model. However, replacement of the crossing would require installation of a jacked casing across the freeway right-of-way. Considering downstream capacity constraints of the 4th Street Trunk Sewers and upstream constraints of the Wake Avenue Lift Station (as discussed later in this Section), upgrading of the capacity of this sewer would not increase the overall capacity of this line.





**Imperial Avenue Collector Sewers (6c through 6g).** Some of the collector sewer capacity limitations are associated with lines draining to the Imperial Avenue Trunk Sewer. These collector sewers typically have low slope values (between 0.0008 and 0.0015 ft/ft). Because these pipelines are constrained by the existing upstream and downstream connection elevations, replacement with larger diameter sewers is not considered a practical solution to the existing surcharge problem because of the reduction of in-pipe flow velocities.

### **Summary and Recommendations**

**Trunk Sewers.** With the exception of the La Brucherie Road Trunk Sewer, the results of the hydraulic modeling indicate that under peak wet weather flow conditions, the City's trunk sewers are flowing full. Field inspections generally confirm that flow in these trunk sewers is approaching the open channel hydraulic capacity of the lines. However, the City reports that the trunk lines are generally in good condition, that surcharging of flow is known to occur only in the Imperial Avenue Trunk Sewer, and that no overflow due to surcharging has occurred.

Based on limited surcharging of flow in the existing trunks, flat pipeline slopes dictated by the topography of the area, and no overflows due to surcharging, replacement or paralleling of the existing trunk sewers is not required. However, these trunk sewers do not have available capacity to serve future development. The ultimate sewer system developed in Section 5 does not rely on the existing trunk sewers with the exception of the La Brucherie Road Trunk Sewer which is committed to serving future development in the west and south areas of the City's sphere of influence.

It is recommended that the ultimate sewer system allow for diversion of flow from the Imperial Avenue Trunk Sewer to relieve limited surcharging. This would be accomplished by sizing the future Lotus Canal trunk sewer to handle flow diverted from Imperial Avenue. A diversion lift station and forcemain to the Lotus trunk sewer could be added in the future if surcharging of the Imperial Trunk Sewer reaches unacceptable levels.

**Collector Sewers.** Although there are isolated sections of collector sewers which appear to be flowing full, this is generally due to flat pipe slopes. Although replacement of these collector sewers with larger lines would reduce the flow depth, it would also result in lower flow velocities which could increase sewer maintenance and cleaning requirements. Paralleling of these sewers would have similar results. Replacement or paralleling of these sewers is therefore not recommended.

### **Evaluation of Lift Station and Forcemain Capacities**

Peak wet weather flows to the lift station were determined from the hydraulic model and compared to existing rated pumping capacities. Table 4.6 presents the comparison of available pumping capacity and estimated peak wet weather flows to the lift stations. A discussion of the capacity requirements of each lift station follows.



## **Main Lift Station**

The Main Lift Station was recently refurbished. The results of the hydraulic modeling show that this pump station has adequate capacity to pump the peak wet weather flow rate with one of the larger pumps available as a standby. As discussed in Section 5, flows from future development will be routed around the existing conveyance system, including the Main Lift Station. Therefore, future flows to this lift station are not expected to increase significantly. Additionally, diversion of existing flows from the southern area to future conveyance facilities due to the replacement of the Wake Avenue Lift Station and potential future diversion of flows from the Imperial Avenue Trunk Sewer would decrease flows to the Main Lift Station.

Assuming that the Main Lift Station will not be required to serve future development outside of its present service area, and that some existing flows will be diverted to Lift Station No. 3 in the future, the capacity of the Main Lift Station is adequate for existing and future service conditions.

## **Eastside Lift Station**

Based on pump data provided by the City and on the unit flow parameters developed for this study, additional pumping capacity is required at the Eastside Lift Station. The 1987 Master Plan Update recommended replacement of this lift station due to its age and condition. Considering the need for additional pumping capacity and the age of this station, it is recommended that it be replaced with a higher capacity station. The replacement pump station should be sized to handle projected flow rates from the present service area of the lift station. In order to avoid discharging additional flow to the Main Trunk Sewer and the Main Lift Station, future development in the eastern area will be served with sewage collection and conveyance facilities separate from the existing facilities. On the basis of the ultimate collection and conveyance system described in Section 5, the estimated ultimate peak wet weather flow capacity of the Eastside Lift Station is 2,300 gpm.

As an alternative to discharging to the Main Trunk Sewer, the replacement lift station could pump directly to the treatment plant through a 17,500 ft long forcemain. This approach would relieve capacity on the Main Trunk Sewer and Main Lift Station. The replacement lift station and forcemain could be sized to handle future flows from the eastern development area and therefore reduce the forcemain requirements for the ultimate conveyance system. The ultimate capacity requirement for the Eastside Lift Station serving the entire eastern development area would be 7,500 gpm, compared to a 2,300 gpm capacity for the existing service area.

The alternative of pumping directly to the treatment plant from the Eastside Lift Station is not recommended due to an estimated additional cost of approximately \$1.3 million for the forcemain (initial size 12-inch diameter, 17,500 ft at \$75/ft), plus additional costs associated with increased pumping head requirements and allowances for future expansion (such as larger structures). Since the capacity of the Main Lift Station and Main Trunk Sewer have been determined to be adequate for





the existing service area, the benefits of reduced flow to these facilities is marginal. Financing for improvements to serve potential areas of future development is probably not available at this time. Considering the additional cost and the fact that the overall pumping requirements for the ultimate conveyance system are not decreased by this alternative (same number of lift stations and same amount of pumping), it is recommended that the Eastside Lift Station replacement be sized for the existing service area within the present City limits.

### **Lift Station No. 3**

The capacity of the La Brucherie Trunk Sewer is on the order of 4,000 gpm. Lift Station No. 3 receives flow from the La Brucherie Trunk and pumps it to the treatment plant. This trunk sewer is the only trunk dedicated to serving areas which are presently undeveloped. In order to fully utilize the La Brucherie Trunk, it will be necessary to upgrade the capacity of Lift Station No. 3 to the trunk sewer capacity. Assuming that all of the City's population growth in the near future occurs in the La Brucherie drainage basin, an increase in the Lift Station No. 3 capacity will be required by the year 1997.

Lift Station No. 3 is proposed to also receive flow from a future western trunk sewer along the Lotus Canal and from a future northern trunk sewer along Bradshaw Avenue. These two future trunk sewers and the La Brucherie Trunk Sewer will handle flow from all future development. The ultimate peak wet weather flow capacity required for Lift Station No. 3 is therefore estimated to be 15,000 gpm.

### **Lift Station No. 2**

The capacity of Lift Station No. 2 is adequate for present service conditions and for projected service conditions on the basis of the ultimate collection and conveyance system described in Section 5. Future evaluation of the capacity requirements for this lift station are recommended as more information regarding development in the southwestern corner of the ultimate service area and in the area of the county served by this lift station becomes available.

### **Wake Avenue Lift Station**

The Wake Avenue Lift Station has adequate capacity for its present service area. However, this lift station could potentially be used for future development south of the freeway and outside of the present City limits. As described previously in this Section, there is not available capacity in the 4th Street Trunk Sewer and the Main Trunk Sewer to carry additional flow from future development in the south. It is therefore recommended that this lift station not be used to serve future development. On this basis, and considering that it is recommended that this lift station will ultimately be replaced by a lift station serving the future southern development area, the capacity of this lift station is considered to be adequate for present and future flow conditions.



### **Lift Station No. 1, Gio's Lift Station, Ross Avenue Lift Station, and Heil Avenue Lift Station**

These lift stations all are dedicated to specific, relatively small drainage basins. On the basis of the results of the hydraulic analysis and a review of the development in each service area, the capacity of these lift stations is considered adequate for ultimate development.

### **Evaluation of Forcemains Capacity**

An evaluation of the capacity of each forcemain on the basis of lift station rated capacity is presented in Table 4.7. Based on existing pumping capacity, all of the forcemain sizes are adequate. It is recommended that the 150 ft Eastside Lift Station forcemain be replaced as part of the lift station replacement due to the age of the forcemain. The size of the 50 ft long forcemain for an expanded Lift Station No. 3 will also need to be increased as pumping capacity is increased.

### **Summary of Recommended Lift Station and Forcemain Improvements**

Recommended improvements to the lift stations and forcemains are as follows:

- Replace the Eastside Lift Station and Forcemain with a 2,300 gpm capacity lift station and forcemain.
- Increase the capacity of Lift Station No. 3 by the year 1997 from 1,500 gpm to 4,000 gpm, the estimated capacity of the La Brucherie Road Trunk Sewer. As discussed in Section 5, the ultimate required capacity of this lift station is estimated to be 15,000 gpm. Additional capacity increases should be provided as part of construction of the Lotus Canal trunk sewer and the Bradshaw Avenue trunk sewer.
- Periodically review the capacity requirements for Lift Station No. 2 based on future development in the southwestern service area.
- As part of the ultimate wastewater conveyance system, the Wake Avenue Lift Station will be replaced with a lift station to service future development in the southern development area. The Wake Avenue Lift Station should not be used for future development in the southern development area.



Table 4.6  
Existing Lift Station Capacity Analysis

Lift Station	Estimated Pumping Capacity (gpm)	Estimated Current PWWF Rate (gpm)	Additional <sup>a</sup> Capacity Required
Main Lift Station	8,700	8,200	No
Eastside Lift Station	1,000	1,800	Yes
Lift Station #1	400	24	No
Lift Station #2	400	210	No
Lift Station #3	1,500	1,200	Yes <sup>b</sup>
Wake Avenue Lift Station	200	260	No
Gio's Lift Station	200	260	No
Ross Avenue Lift Station	325	330	No
Heil Avenue Lift Station	250	100	No

<sup>a</sup> For existing service area only

<sup>b</sup> By the year 1997.

Table 4.7  
Existing Forcemain Capacity Analysis

Lift Station	Forcemain Diameter (inch)	Estimated Pumping Capacity (gpm)	Velocity (ft/s)	Requires Paralleling or Replacing
Main Lift Station	27	8,000	4.5	No
Eastside Lift Station	10	1,000	4.1	Yes <sup>a</sup>
Lift Station #1	6	400	4.5	No
Lift Station #2	8	400	2.6	No
Lift Station #3	12	1,500	4.3	No
Wake Avenue Lift Station	4	200	5.1	No
Ross Avenue Lift Station	4	325	8.3	No
Heil Avenue Lift Station	6	250	2.8	No

<sup>a</sup> For replacement lift station



## **SECTION 5**

### **EVALUATION OF ULTIMATE WASTEWATER COLLECTION AND CONVEYANCE SYSTEM REQUIREMENTS**





## SECTION 5

### EVALUATION OF ULTIMATE WASTEWATER COLLECTION AND CONVEYANCE SYSTEM REQUIREMENTS

As discussed in Section 2, the ultimate sewer service area encompasses the existing City limits (including existing and future development), proposed annexation areas, and the Phase I and Phase II planning areas. Apart from potential subdivisions south of Interstate 8, there are presently no specific land use plans for the future development areas. Because there are no definitive land use plans for the future development areas, the following assumptions have been made:

- Area within the sphere of influence but beyond the Phase I and Phase II boundaries will remain in agricultural use and will not be sewerred.
- Wastewater flow projections for future development areas are based on the 1990 General Plan population projections for Phase I and Phase II and a gross population unit flow factor (average flow per person including industrial, commercial, government and all other sources). Refer to Section 3 for additional details regarding wastewater flow projections.
- Flow sources will be uniformly distributed over future development areas, all of which will be sewerred. The use of on-site disposal systems in low density areas will reduce the overall service requirements derived from this assumption.

The proposed concept for providing sewer service in future development areas is presented in this Section.

#### PROPOSED FACILITIES FOR FUTURE DEVELOPMENT AREAS

Proposed facilities to serve presently undeveloped, unsewerred areas within the ultimate service area are described below. Due to the existing sewer capacity limitations described in Section 4, the recommended approach to providing sewer service in future development areas is to provide separate transmission facilities for future development.

Consistent with the existing sewer system, west to east flowing collector sewers will be required in presently unsewerred areas to carry flow to south to north flowing trunk sewers. The actual configuration of the collector sewer system will depend on layout of the specific development. For the purposes of modeling and estimating the size and extent of future sewers, the ultimate layout was based on east-west collector sewer alignments and north-south trunk sewer alignments, serving areas no larger than 160 acres.



Figure 5.1 shows a plan of the trunk sewers and lift stations which comprise the proposed ultimate sewer system. Figure 5.2 illustrates the drainage basins for the ultimate sewer system and Figure 5.3 is a schematic drawing of the proposed ultimate system. Table 5.1 presents data on each basin for ultimate conditions; including average daily flow and peak wet weather flow estimates produced by the computer model in accordance with the parameters described in Section 3. Hydraulic modeling data are provided in Appendix B.

The proposed future facilities are conceptual level. Specific locations of trunk and collector sewers, sites for lift stations, and alignment of forcemains would be developed in subsequent planning and design phases considering such issues as existing utilities, availability of property, and hydraulics. However, the general concepts, such as which areas are to be pumped and where the flow will be pumped to are valid for planning purposes.

### **Western Development Area**

The western development area is defined as that portion of the ultimate service area west of La Brucherie Road to Austin Road. The area can be divided into parts: (1) the partially developed area between La Brucherie Road and the Lotus Canal which can be serviced by the La Brucherie Trunk Sewer; and (2) the undeveloped area west of Lotus Canal.

#### **La Brucherie Trunk Sewer Service Area**

The La Brucherie Trunk Sewer serves development on the west side of town between La Brucherie Road and the Lotus Canal. This trunk sewer also receives pumped flow from Lift Station No. 2. Lift Station No. 2 receives flow from the county via Lift Station No. 1 and from new residential subdivisions immediately south of Interstate 8 between La Brucherie Road and Clark Road. The area between Lotus Canal and La Brucherie Road is presently approximately 50 percent developed. The county funded a portion of the construction cost of this sewer and has rights to a portion of the flow capacity. The City's capacity in the La Brucherie Trunk Sewer is for servicing ultimate development in the area between the Lotus Canal and La Brucherie and certain areas south of Interstate 8.

In development of the ultimate sewer system plan, it was assumed that the capacity of the La Brucherie Road Trunk Sewer is committed to the existing service area described above. Therefore, the ultimate service area for this trunk sewer consists of existing Drainage Basins A-1, BB-1, and CC-1, and future Drainage Basin II.

#### **Lotus Canal to Austin Road**

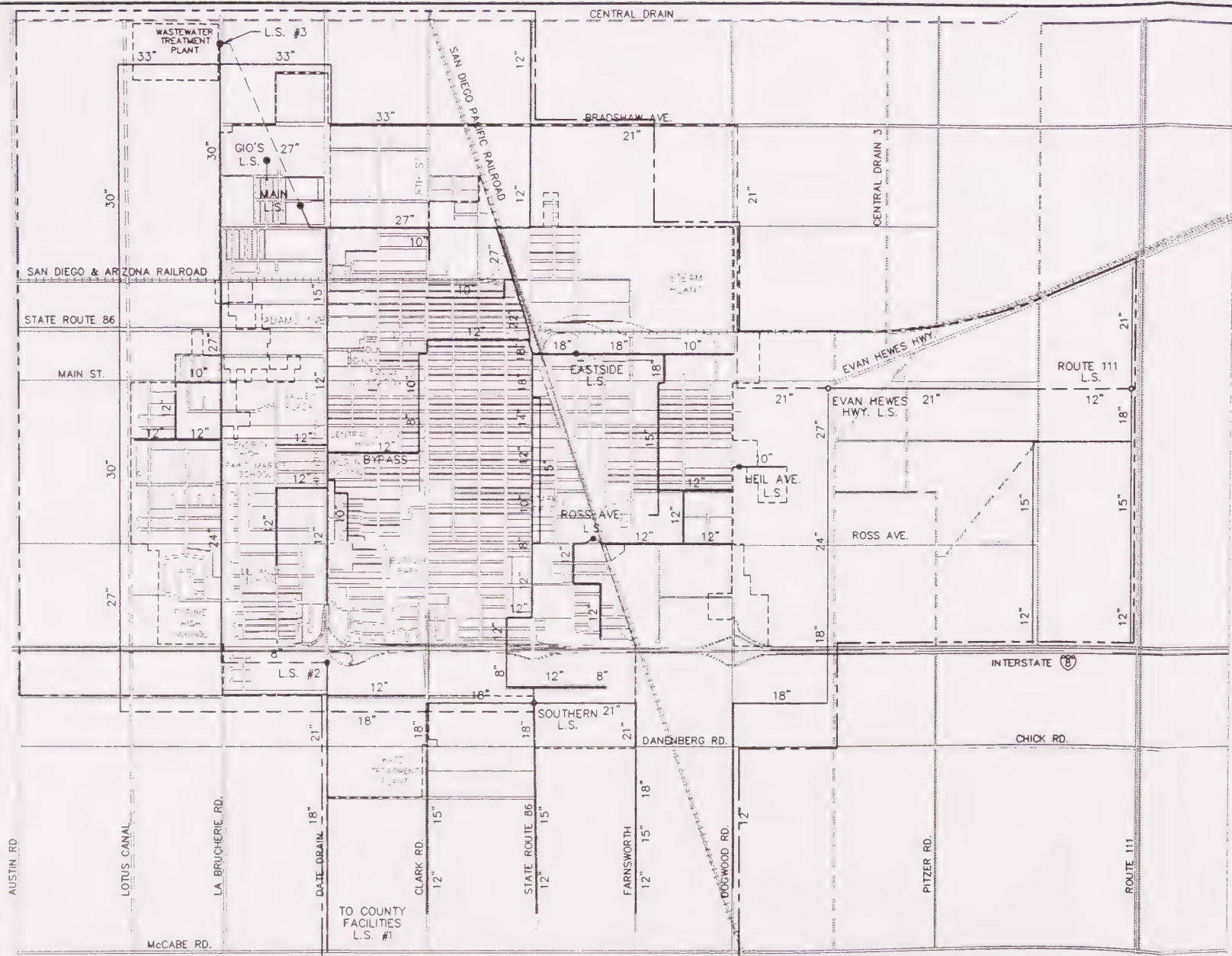
The ultimate service area extends on the west from the Lotus Canal to Austin Road. A new trunk sewer along Lotus Canal is proposed to serve the area bounded by the Lotus Canal, the Central Drain, Austin Road, and Danenberg Road (future Drainage Basin I). Expansion of the pumping capacity of Lift Station No. 3 would be required at the treatment plant site to serve this area.



## Figure 5-1 - Ultimate Sewer System Plan







# LEGEND

## PIPE DIAMETER

EXISTING GRAVITY SEWER  
FUTURE GRAVITY SEWER

EXISTING LIFT STATION

FUTURE LIFT STATION

EXISTING FORCEMAIN

FUTURE FORCEMAIN

EXISTING CITY LIMITS

ULTIMATE SERVICE AREA



0 1250 2500

SCALE: 1" = 2500'

FIGURE 5.1

## ULTIMATE SEWER SYSTEM PLAN

ES ENGINEERING-SCIENCE





Figure 5-2 - Ultimate Sewer Drainage Basins



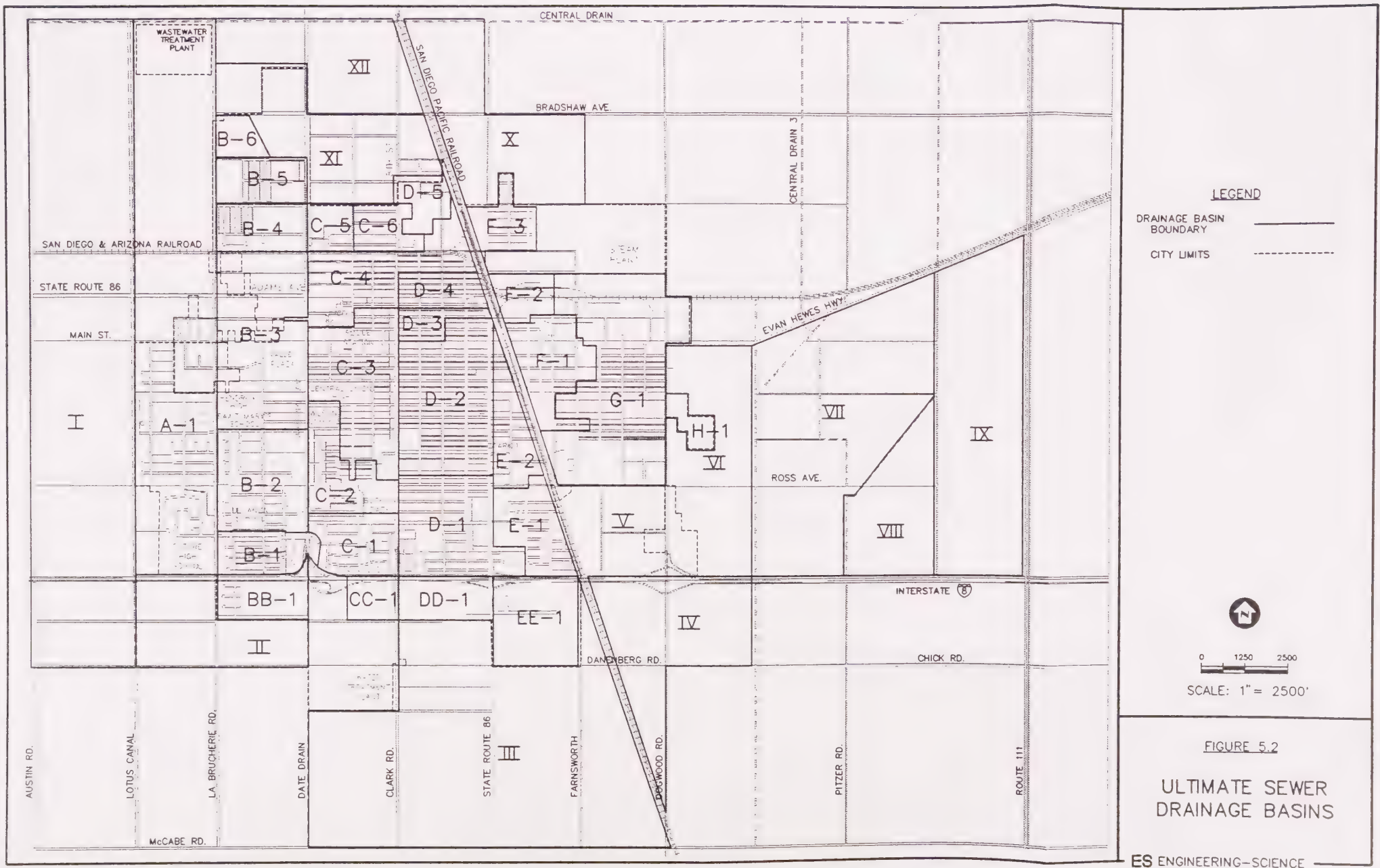




Figure 5-3 - Schematic of Ultimate Sewer System



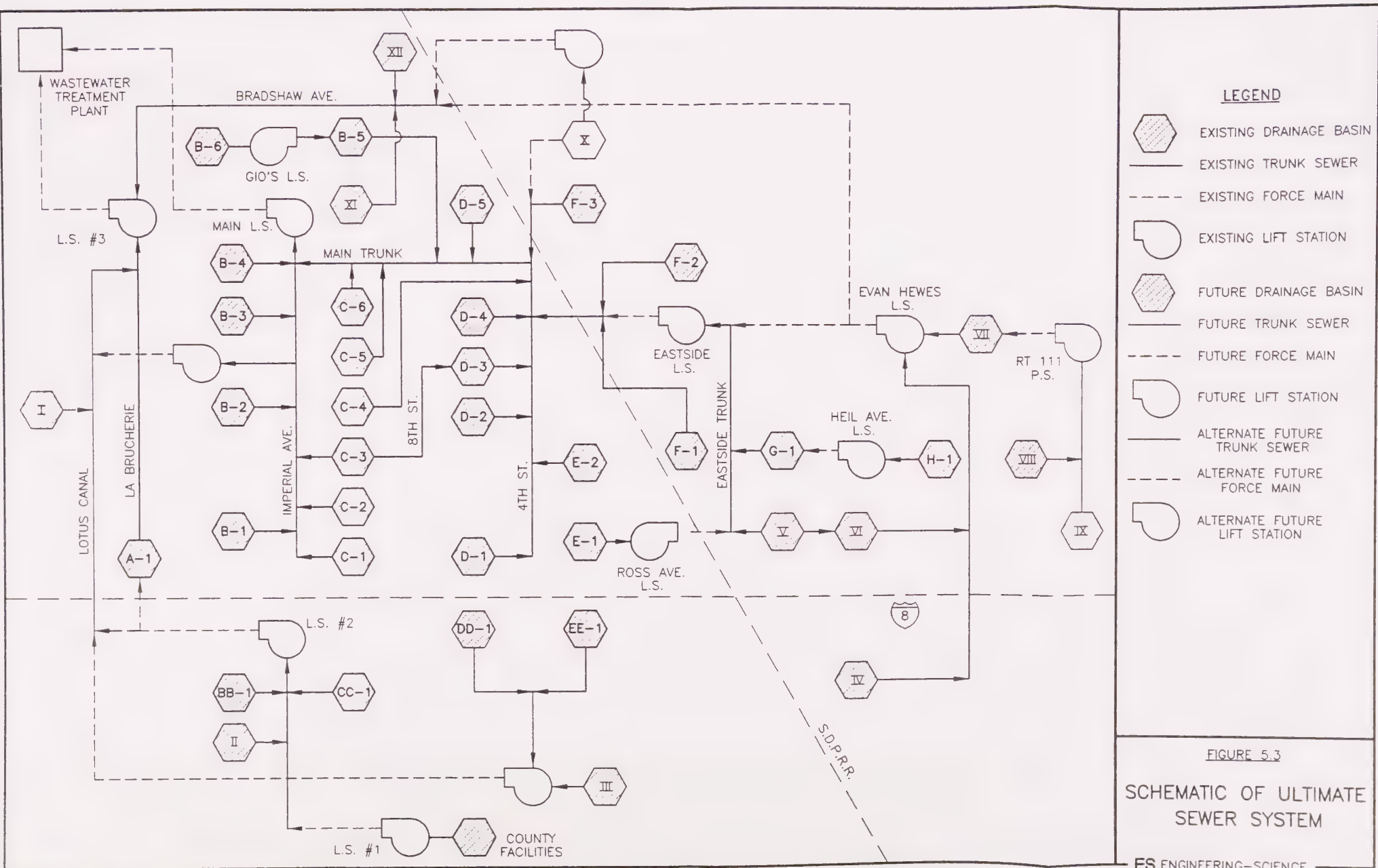


FIGURE 5.3  
SCHEMATIC OF ULTIMATE  
SEWER SYSTEM

ES ENGINEERING-SCIENCE





**Table 5.1**  
**Ultimate Flow Estimates for Drainage Basins**

Drainage Basin	Notes	Area (acres)	Population	Residential (mgd)	Commercial Industrial (mgd)	Average Daily Flow (mgd)	Peak Factor	Total Basin Flow (gpm)
A-1	1	298	10,646	1.06	0.19	1.26	2.51	3.15
BB-1	2	144	2,296	0.23	0.06	0.29	2.87	0.84
B-1	3	61	903	0.09	0.05	0.14	3.08	0.44
B-2		130	4,312	0.43	0.14	0.57	2.73	1.56
B-3		331	10,644	1.06	0.51	1.58	2.47	3.89
B-4	5	69	725	0.07	0.09	0.16	3.30	0.54
B-5		30	2,248	0.22	0.03	0.25	2.91	0.73
B-6		49	820	0.08	0.05	0.14	3.09	0.42
CC-1		135	2,717	0.27	0.00	0.27	2.89	0.79
C-1	6	64	2,098	0.21	0.07	0.28	2.88	0.81
C-2		99	1,137	0.11	0.07	0.19	3.10	0.57
C-3		175	1,992	0.20	0.16	0.36	2.82	1.02
C-4		116	2,542	0.25	0.13	0.39	2.80	1.08
C-5		17	221	0.02	0.02	0.04	3.44	0.13
C-6		48	734	0.07	0.04	0.11	3.18	0.36
DD-1	7	19	1,035	0.10	0.07	0.17	3.06	0.52
D-1	8	145	2,063	0.21	0.27	0.48	2.89	1.38
D-2		170	6,083	0.61	0.43	1.04	2.58	2.68
D-3		103	1,992	0.20	0.23	0.43	2.78	1.19
D-4	9	31	403	0.04	0.02	0.06	3.45	0.22
D-5		12	827	0.08	0.00	0.08	3.32	0.27
EE-1		42	1,035	0.10	0.00	0.10	3.22	0.33
E-1	10	89	1,428	0.14	0.01	0.16	3.06	0.48
E-2		74	2,969	0.30	0.58	0.88	2.63	2.32
F-1		98	477	0.05	0.18	0.23	2.94	0.68
F-2		11	0	0.00	0.03	0.03	3.45	0.11



**Table 5.1**  
**Ultimate Flow Estimates for Drainage Basins**

Drainage Basin	Notes	Area (acres)	Population	Residential (mgd)	Commercial Industrial (mgd)	Average Daily Flow (mgd)	Peak Factor	Total Basin Flow (gpm)
F-3	11	35	4,175	0.42	0.00	0.64	2.70	1.73
G-1	12	292	3,210	0.32	0.70	1.02	2.58	2.64
H-1		14	0	0.00	0.04	0.04	3.44	0.14
I-a	13	1223	20,619	2.06	1.23	3.29	2.30	7.57
I-b	14	338	14,728	1.47	0.44	1.92	2.43	4.66
II	15	131	6,586	0.66	0.02	0.68	2.69	1.84
III		1290	11,097	1.11	0.76	1.87	2.43	4.53
IV		330	3,470	0.35	0.23	0.57	2.73	1.56
V		97	0	0.00	0.29	0.29	2.87	0.84
VI	16	467	15,782	1.58	1.67	3.25	2.30	7.47
VII		516	3,097	0.31	n/a	n/a		0.00
VIII		226	1,357	0.14	0.09	0.22	2.95	0.66
IX	17	584	4,854	0.49	0.32	0.80	2.65	2.12
X		355	3,444	0.34	0.23	0.57	2.70	1.55
XI		184	1,087	0.11	n/a	n/a		0.00
XII	18	225	18,967	1.90	2.08	3.98	2.24	8.91
Totals	19	8,970	89,989	9.00	7.18	16.18	2.10	33.98

**NOTES:**

- |  |   |
|--|---|
| 1 Includes County Facilities, BB-1, CC-1, II (except Area) | 11 Includes X (except Area)                             |
| 2 Includes II east of La Brucherie (except Area)           | 12 Includes E-1, H-1 (except Area)                      |
| 3 Includes B-1, C-1 (except Area)                          | 13 Includes III (except Area)                           |
| 4 Includes B-2, C-2 (except Area)                          | 14 Includes A-1 (except Area)                           |
| 5 Includes B-6 (except Area)                               | 15 Includes BB-1, C-1, County Facilities (except Area)  |
| 6 Includes B-1 (except Area)                               | 16 Includes IV, VII (except Area)                       |
| 7 Includes E-1 (except Area)                               | 17 Includes VIII (except Area)                          |
| 8 Includes DD-1 (except Area)                              | 18 Includes VII, XII (except Area)                      |
| 9 Includes C-3 (except Area)                               | 19 Total flow into treatment plant includes all basins. |
| 10 Includes D-1, D-2 (except Area)                         |   |



**Table 5.1**  
**Flow Estimates for Ultimate Drainage Basins**

Drainage Basin	Notes	<sup>a</sup>		Average Daily Flow			Peak Factor	Peak Wet Weather Flow (mgd)
		Net Sewered Area (acres)	Population	Residential (mgd)	Commercial Industrial (mgd)	Total (mgd)		
F-3	(12)	35	4,175	0.42	0.00	0.64	2.70	1.73
G-1	(13)	292	3,210	0.32	0.70	1.02	2.58	2.64
H-1		14	0	0.00	0.04	0.04	3.44	0.14
I-a	(14)	1223	20,619	2.06	1.23	3.29	2.30	7.57
I-b	(15)	338	14,728	1.47	0.44	1.92	2.43	4.66
II	(16)	131	6,586	0.66	0.02	0.68	2.69	1.84
III		1290	11,097	1.11	0.76	1.87	2.43	4.53
IV		330	3,470	0.35	0.23	0.57	2.73	1.56
V		97	0	0.00	0.29	0.29	2.87	0.84
VI	(17)	467	15,782	1.58	1.67	3.25	2.30	7.47
VII		516	3,097	0.31	n/a	n/a	n/a	n/a
VIII		226	1,357	0.14	0.09	0.22	2.95	0.66
IX	(18)	584	4,854	0.49	0.32	0.80	2.65	2.12
X		355	3,444	0.34	0.23	0.57	2.70	1.55
XI		184	1,087	0.11	n/a	n/a	n/a	n/a
XII	(19)	225	18,967	1.90	2.08	3.98	2.24	8.91
Totals	(20)	8,970	84,044	8.40	5.46	13.87	2.00	27.73

<sup>a</sup> Excluding roads.

<sup>b</sup> Peak hourly flow.

**Notes:**

- |  |  |
|--|--|
| <p>1 Includes County Facilities, BB-1, CC-1, II west of La Brucherie</p> <p>2 Includes II east of La Brucherie</p> <p>3 Includes C-1</p> <p>4 Includes B-2, C-2</p> <p>5 Includes B-6</p> <p>6 Includes B-1</p> <p>7 Includes EE-1</p> <p>8 Includes DD-1</p> <p>9 Includes E-2</p> <p>10 Includes C-3</p> | <p>11 Includes D-1 and part of D-2</p> <p>12 Includes X</p> <p>13 Includes E-1, H-1</p> <p>14 Includes III</p> <p>15 Includes A-1</p> <p>16 Includes BB-1, C-1, County Facilities</p> <p>17 Includes IV, VII</p> <p>18 Includes VIII</p> <p>19 Includes VII, XII</p> <p>20 Total flow into treatment plant includes all basins. Only total Net Sewered Area is the sum of individual basins.</p> |
|--|--|



In addition, this trunk sewer and the Lift Station No. 3 expansion would be sized to handle pumped flow from the ultimate southern development area (future Drainage Basin III). This future trunk sewer is proposed to handle flow from the southern development area because, other than the La Brucherie Trunk Sewer, the existing system has no surplus capacity. Although the La Brucherie Trunk Sewer could handle some of the southern area flow, it is assumed that its capacity is committed to the gravity flow service area of the La Brucherie Trunk Sewer as described previously.

The proposed Lotus Canal trunk sewer could also be sized to handle some of the capacity obligations of the La Brucherie Trunk Sewer by pumped diversion from Lift Station No. 2 or from a future diversion lift station and force main. This would allow flow to be diverted from the Imperial Avenue Trunk Sewer to La Brucherie to relieve overloading of the Imperial trunk. Alternatively, flow could be diverted by pumping directly from the Imperial Avenue Trunk Sewer to the Lotus Canal Trunk Sewer to reduce flow in the Imperial line. Preliminary sizing of the Lotus trunk does not include capacity for diverted flow from the Imperial line. The need for diversion from Imperial to Lotus Canal should be re-evaluated prior to design of the Lotus Canal trunk.

#### **Southern Development Area**

The southern development area is the Phase I and Phase II undeveloped area south of Interstate 8 which is generally bounded by Danenberg Road on the north, Imperial Avenue on the west, McCabe Road on the south (which is the limit of the study area), and the railroad on the east. Due to the topography of the region, it will be necessary to pump wastewater from this area.

As discussed above, it is proposed to pump flow from the southern development area (future Drainage Basin III) to a future trunk sewer along the Lotus Canal. Trunk sewers south of Interstate 8 would be provided in Clark Road, 4th Street, Farnsworth Road, and Danenberg Road to convey wastewater to a future lift station (Southern Lift Station) in the vicinity of 4th Street and Wake Avenue. A forcemain would be aligned along Wake Avenue to the Lotus Canal Trunk Sewer. This lift station would be sized to replace the existing Wake Avenue lift station, which would reduce flow through the existing conveyance system.

Depending on the timing of development in the southern area relative to the northwest La Brucherie Road area, the forcemain could discharge on an interim basis to the La Brucherie Trunk Sewer if southern development precedes further La Brucherie Road development. Development in the southern area could then precede construction of the Lotus Canal trunk. Ultimately, however, the La Brucherie Trunk Sewer does not have adequate capacity to handle future flows from both of these areas.





If flow from the southern development area is discharged to the La Brucherie Trunk Sewer on an interim basis, it should discharge directly to the La Brucherie Trunk Sewer and not to Lift Station No. 2 due to capacity limitations of that lift station.

There are presently three sewer crossings of Interstate 8: the La Brucherie Trunk Sewer; a 6-inch diameter gravity sewer which serves the water treatment plant; and an 8-inch diameter gravity sewer at 5th Street. The 6-inch diameter sewer flows to the 8th Street Trunk Sewer, which is apparently at capacity as discussed in Section 4. The 5th Street sewer flows to the 4th Street Trunk Sewers, which is also has potential capacity limitations. None of the existing sewer crossings of Interstate 8 and downstream trunk sewers is suitable for handling flow from the southern development area.

#### **Southeastern Development Area**

The industrial area south of Interstate 8 and east of the railroad tracks (future Drainage Basin IV) is proposed to be served by a trunk sewer along Dogwood Road, Chick Road, and the half-section line east of Dogwood Road, with a crossing of Interstate 8 at the half section line. This trunk sewer would connect to the trunk sewer serving that portion of the eastern development area adjacent to the City as described below.

#### **Eastern Development Area**

The future development area to the east of the City extends from the eastern City limits to State Highway 111, between Evan Hewes Highway and Interstate 8. It is the largest contiguous future development area within the Study Area. Due to the northeasterly trending downward grade of the region, pumping will be required to convey wastewater from this area to the treatment plant. Five future drainage basins (V, VI, VII, VIII, and IX) have been identified within the eastern development area based on topography and on the Phase I and Phase II development areas.

It is proposed that future Drainage Basin V will flow to the existing Eastside Trunk Sewer/Lift Station system which discharges to the Main Trunk Sewer/Lift Station. As discussed in Section 4, these existing facilities presently have capacity limitations. It is recommended that the Eastside Lift Station be replaced; however, capacity improvements for these other facilities are presently not envisioned. If necessary, and depending on the timing of development, future Drainage Basin V could be incorporated into future Drainage Basin VI to avoid additional flow through the Eastside Trunk Sewer, Main Trunk Sewer, and Main Lift Station if those facilities are not upgraded in the future.

A south to north trunk sewer is proposed along the half-section line east of Dogwood Road to convey flow from future Drainage Basins IV, VI, and VII (and possible V) to a lift station at Main Street and Evan Hewes Highway (Evan Hewes Highway Lift Station). West to east flowing collector sewers would be provided for Drainage Basin VI and east to west collector sewers would be provided for Drainage Basin VII.



A trunk sewer is proposed along Cooley Road to serve future Drainage Basin VIII, which will discharge to a trunk sewer along Highway 111 serving Drainage Basin IX. The Highway 111 trunk will convey wastewater from Drainage Basins VIII and IX to a lift station located at Highway 111 and Gillett Road (Highway 111 Lift Station). This lift station will pump wastewater to a trunk sewer along Gillett Road that will carry it to the Evan Hewes Highway Lift Station.

The Evan Hewes Lift Station will pump all wastewater from the eastern development area (with the possible exception of Drainage Basin V). Due to capacity limitations of the Main Trunk Sewer/Lift Station, it is proposed that this lift station discharge to a future northern trunk sewer flowing east to west to the treatment plant along Bradshaw Avenue. For discharge to the Bradshaw trunk sewer, a forcemain is proposed along Evan Hewes Highway, Dogwood Road, and Bradshaw Avenue as shown on Figure 5.1. The Bradshaw trunk sewer, which will also serve the northern development area, is described below. Alternatively, the lift station could discharge to the Eastside Lift Station and forcemain which would be modified to pump directly to the treatment plant. Because the timing of the development of the eastern area is not known, it is assumed that for the ultimate system the Evan Hewes Lift Station will discharge to the future northern trunk sewer in Bradshaw Avenue.

On an interim basis, the Evan Hewes Lift Station could discharge flow from partial development of the eastern area to the Main Trunk Sewer. However, this would only increase the overloading of the Main Trunk Sewer if it is not upgraded, and could overload the capacity of the Main Lift Station.

#### **Northeastern Development Area**

To avoid a lift station for the northeastern development area (future Drainage Basin X), it is proposed that wastewater from this area flow by gravity to the existing Main Trunk Sewer. If it is confirmed that the Main Trunk Sewer does not have available capacity, a lift station would be provided to pump Drainage Basin X wastewater to the proposed future Bradshaw Avenue Trunk Sewer. Trunk sewers would be provided to serve Drainage Basin X along Bradshaw Avenue and 4th Street. The configuration of the trunk sewers would depend on whether flow would be conveyed to the Main Trunk Sewer or to a lift station on Bradshaw Avenue.

#### **Northern Development Area**

Although the northern development area is generally adjacent to the existing City limits, it is downgrade of the existing sewer system. Due to the topography and because the existing Main Trunk Sewer system appears to be at capacity, it is proposed to serve the northern development area by a trunk sewer that would run along Bradshaw Avenue, turn north along Imperial Avenue, and then west to the treatment plant. Expansion of the pumping capacity of Lift Station No. 3 at the treatment plant site would be required to pump flow from this trunk sewer into the plant. The trunk sewer and lift station capacity expansion would be sized to handle pumped flow from the northern and eastern future development areas and potentially from the northeastern development area.





### **Lift Station No. 3 Expansion**

At the treatment plant site, it will be necessary to lift flow from the proposed Lotus Canal Trunk Sewer and the proposed Bradshaw Avenue Trunk Sewer into the treatment plant, similar to function performed by existing Lift Station No. 3 with flow from the La Brucherie Trunk. Ultimately, a single lift station is proposed to be provided for all three trunk sewers. This lift station would either be an expanded Lift Station No. 3 or a new lift station which would replace Lift Station No. 3. Expansion of the lift station capacity would be phased with construction of the trunk sewers.

### **Summary of Proposed Future Facilities**

A summary of the proposed trunk sewers by development area, size, and length is presented in Table 5.2. Table 5.2 also includes an estimate of collector sewers by drainage basin, size, and length. Proposed lift stations are listed in Table 5.3 by area, location, and projected capacity. Future forcemain sizes and lengths are shown in Table 5.4.

### **IMPROVEMENTS TO EXISTING FACILITIES FOR ULTIMATE DEVELOPMENT**

The existing sewer system was designed to serve the existing developed area of the City and does not have surplus capacity to serve future development in outlying areas. The La Brucherie Trunk Sewer does presently have available capacity, but most of that capacity is committed to specific areas. Planning of sewer service for future development areas has been based on providing separate facilities for future development. Therefore, with the exception of Lift Station No. 3, it is not envisioned that upgrading of the existing sewage collection and conveyance facilities will be necessary to serve future development areas.

Based on the proposed ultimate system described above, there are three potential impacts of future flows on the existing system:

1. Future Drainage Basin V (southeast) flows to the Eastside Trunk Sewer, Eastside Lift Station, Main Trunk Sewer, and Main Lift Station.
2. Future Drainage Basin X (northeast) flows to the Main Trunk Sewer and Main Lift Station.

The estimated peak wet weather flow from these basins is 500 gpm from Basin V and 200 gpm from Basin X. The Eastside Lift Station is recommended to be replaced for capacity and other deficiencies. The additional flow from Future Drainage Basin V will increase the capacity requirement for the replacement lift station from 1,800 gpm to 2,300 gpm. Additional flow from Future Drainage Basin X would increase the estimated flow to the Main Lift Station from 8,200 gpm to 8,900 gpm which is comparable to the available pumping capacity. If it is



determined not to use these existing facilities to serve future development areas, Basin V flows would be routed to the future Evan Hewes Lift Station and Basin X flows would be pumped by an additional future lift station to the Bradshaw Trunk Sewer.





Table 5.2

Summary of Trunk Sewers and Collector Sewers  
Proposed to Serve Future Development Areas

Development Area	Drainage Basin	Sewer Type	Sewer Diameter (inch)	Sewer Length (ft)
Western	I	trunk	33	1,800
			30	12,000
			27	4,000
	II	collector	12	45,000
		collector <sup>a</sup>	12	5,500
Southern	III	trunk	18	8,100
			15	12,000
		collector	12	28,000
			10	4,700
Southeastern	IV	trunk	18	5,100
		collector	10	8,700
Eastern	V	collector	15	2,500
	VI	trunk	27	2,800
			24	1,400
			21	1,400
			12	16,000
	VII	collector	18	4,900
			12	5,000
			10	14,000
	VIII	trunk	15	1,300
			12	2,700
			10	5,300
	IX	trunk	18	1,500
			15	1,300
		collector	12	7,000
			12	13,000
			12	14,000
Northeastern	X	collector	12	14,000
Northern	XI	trunk	33	8,100
		collector	12	4,100
	XII	collector	12	7,500

<sup>a</sup> Includes future collector sewers in Drainage Basin A-1.



Table 5.3

**Summary of Lift Stations Proposed to Serve  
Future Development Areas**

Area	Flow from Basin	Force- Main	Station Capacity (gpm)	Station Location	Discharge Location
Southern	III	yes	3,200	Wake Ave. & 4th Street	Lotus Canal Trunk
Eastern	V-IX	yes	5,300	Evan Hewes Hwy. & Main St.	Bradshaw Trunk
	VIII, IX	yes	1,500	Highway 111 & Gillett	Gillett Trunk
Northeastern <sup>a</sup>	X	no	700	Bradshaw & RR tracks	Bradshaw Rd. Trunk
Treatment <sup>b</sup> Plant	I, III-XII	no	12,000	plant site	headworks

<sup>a</sup> Alternative to discharge to Main Trunk Sewer

<sup>b</sup> Required capacity in Lift Station No. 3 capacity for future Lotus Canal Trunk Sewer and Bradshaw Avenue Trunk Sewer.

Table 5.4

**Summary of Forcemains  
Proposed to Serve Future Development Areas**

Area	Drainage Basin	Pump Station	Forcemain Diameter (inch)	Forcemain Length (ft)
Southern	III	Southern	18	11,000
Eastern	VI-IX	Evan Hewes	21	7,600
	VIII, IX	Highway 111	12	3,000



SECTION 6  
SUMMARY OF RECOMMENDED IMPROVEMENTS  
AND COST ESTIMATES



## SECTION 6

### SUMMARY OF RECOMMENDED IMPROVEMENTS AND COST ESTIMATES

Recommended improvements to the existing wastewater collection and conveyance system have been developed based on the evaluation presented in Section 4 and considering requirements for service to future development. Recommended improvements to the existing system are as follows:

- Replace the Eastside Lift Station and Forcemain with a 2,300 gpm capacity lift station and forcemain.
- Increase the capacity of Lift Station No. 3 by the year 1997 from 1,500 gpm to 4,000 gpm, the estimated capacity of the La Brucherie Road Trunk Sewer. The ultimate required capacity of this lift station is estimated to be 15,000 gpm. Additional capacity increases will be necessary as part of construction of the Lotus Canal trunk sewer and the Bradshaw Avenue trunk sewer.
- Periodically review the capacity requirements for Lift Station No. 2 based on future development in the southwestern service area.

Recommended future improvements to the existing system to be provided as part of the ultimate sewer system are as follows:

- As part of the ultimate wastewater conveyance system, the Wake Avenue Lift Station will be replaced with a lift station to serve existing and future development in the southern development area.
- Diversion of 8th Street flow at Holt Street to a future lift station which will divert 8th Street flow and Imperial Avenue flow to a future trunk sewer along the Lotus Canal.

Cost estimates for the recommended improvements to the existing system are presented in Table 6.1. Cost estimates for the recommended additions to the system to serve ultimate future development are presented in Tables 6.2 through 6.4. Table 6.5 is a summary of the cost estimates for the future facilities.

Cost estimates are conceptual-level and include a 20 percent contingency and 15 percent allowances for engineering and administration. Costs for pipelines are based on length and average depth. Cost estimates for lift stations are a function of capacity based on typical cost curves for either built in place construction or pre-fabricated construction, depending on capacity requirements (Reference 9). Costs are in present dollars and are referenced to the current ENR Construction Cost Index for Los Angeles.





Table 6.1

Estimated Costs for Recommended Lift Station and Forcemain Improvements

Lift Station	Pumping Capacity (gpm)	Unit Cost (\$/gpm)	Total Cost (\$1,000)
Replace Eastside Lift Station	2,300	300	\$690
Upgrade Lift Station No. 3	4,000	150	\$600

Total Cost for Replacement of Deficient Lift Stations = \$1,290

Notes:

- (1) ENR Construction Cost Index 6510, April 1994.
- (2) Costs include 20 percent contingency and 10 percent for engineering.



Table 6.2

## Estimated Cost for Future Trunk and Collector Sewers

Development Area	Drainage Basin	Sewer Type	Diameter (inch)	Length (feet)	Average Depth (feet)	Unit Cost (\$/ft)	Total Cost (\$1000)
Western	I	Trunk	33	1,800	24	265	\$432
			30	12,000	21	175	\$2,520
			27	4,000	6	93	\$240
	II	Collector	12	45,000	6	36	\$2,700
		Collector (a)	12	5,500	7	38	\$385
Southern	III	Trunk	18	8,100	11	63	\$891
			15	12,000	9	48	\$1,080
		Collector	12	28,000	7	38	\$1,960
			10	4,700	6	33	\$282
Southeastern	IV	Trunk	18	5,100	10	59	\$510
		Collector	10	8,700	5	32	\$435
Eastern	V	Collector	15	2,500	5	40	\$125
	VI	Trunk	27	2,800	14	121	\$392
			24	1,400	7	78	\$98
			21	1,400	7	62	\$98
			12	1,600	6	36	\$96
	VII	Collector	18	4,900	8	54	\$392
			12	5,000	8	40	\$400
			10	14,000	7	33	\$980
	VIII	Trunk	15	1,300	14	62	\$182
			12	2,700	11	47	\$297
		Collector	10	5,300	8	35	\$424
	IX	Trunk	18	1,500	8	54	\$120
			15	1,300	9	48	\$117
			12	7,000	12	49	\$840
		Collector	12	13,000	10	44	\$1,300
Northeastern	X	Collector	12	14,000	6	36	\$840
Northern	XI	Trunk	33	8,100	24	265	\$1,944
		Collector	12	4,100	5	36	\$205
	XII	Collector	12	7,500	9	41	\$675

ENR CCI 6510

Total Cost for Future Sewers = \$20,960

(a) Includes future collector sewers in Drainage Basin A-1



**Table 6.3****Estimated Cost for Future Lift Stations**

Flow Basin	Pump Station	Pumping Capacity (gpm)	Unit Cost (\$/gpm)	Total Cost (\$1,000)
III	Southern Pump Station	3,200	172	\$550
V-IX	Evan Hewes Pump Station	5,300	136	\$720
VII, IX	Route 111 Pump Station	1,500	212	\$318
X	Northeastern Pump Station (a)	700	300	\$210
A-1, I-XII	Lift Station No. 3 Expansion	12,000	200	\$2,400

Total Cost For Future Pump Stations = \$4,200

## Notes:

- (1) ENR Construction Cost Index 6510, April 1994.  
 (2) Costs include 20 percent contingency and 10 percent for engineering.

**Table 6.4****Estimated Costs for Future Forcemains**

Flow Basin	Pump Station	Capacity (gpm)	Size (inch)	Length (feet)	Unit Cost (\$/ft)	Total Cost (\$1,000)
III	Southern Pump Station	3,200	18	11,000	50	\$550
V-IX	Evan Hewes Pump Sta.	5,300	21	7,600	60	\$456
VII, IX	Route 111 Pump Station	1,500	12	3,000	36	\$108

Total Cost For Future Forcemains = \$1,114

## Notes:

- (1) ENR Construction Cost Index 6510, April 1994.  
 (2) Costs include 20 percent contingency and 10 percent for engineering.



**Table 6.5**

**Summary of Estimated Costs for Future Wastewater  
Collection and Conveyance Facilities**

Table	Project	Total
Table 6.2	Total Cost for Future Sewers	\$20,960
Table 6.3	Estimated Cost for Lift Stations	\$4,200
Table 6.4	Estimated Costs for Future Forcemains	\$1,114

Total Estimated Costs for Future Wastewater Collection and Conveyance Facilities = \$26,274

Notes:

- (1) ENR Construction Cost Index 6510, April 1994.
- (2) Costs include 20 percent contingency and 10 percent for engineering.





**APPENDIX A**  
**REFERENCES**



## APPENDIX A

### REFERENCES

1. ES Environmental Services, Master Plan Update for the City of El Centro, California Sewer System and Treatment Plant, September 1987.
2. Brian F. Mooney Associates, General Plan City of El Centro, California, March 15, 1989.
3. Jerry H. McLees, Brian H. Mooney Associates, Personal Communication, May 1994.
4. Hofman Planning Associates, City of El Centro Draft Service Area Plan for Proposed Annexation, March 10, 1994.
5. City of El Centro Planning Department, Personal Communication, March 1994.
6. NBS/Lowery, Sewer Rate Study.
7. American Society of Civil Engineers Manuals and Reports on Engineering Practice No. 60/Water Pollution Control Federation Manual of Practice No. FD-5, Gravity Sanitary Sewer Design and Construction, 1982.
8. Pizer Inc., Hydra Users Manual, August 24, 1990.
9. Robert L. Sanks, et al, Pumping Station Design, 1989.



**APPENDIX B**  
**HYDRAULIC MODELING RESULTS**



## **APPENDIX B**

### **CITY OF EL CENTRO SEWER MASTER PLAN UPDATE HYDRAULIC MODELING RESULTS**

#### **CONTENTS**

##### **HYDRAULIC MODELING RESULTS**

- Existing System Physical Data
- Existing System Flow Data
- Existing System Links Exceeding 95 percent Flow Depth
- Ultimate System Physical Data
- Ultimate System Flow Data
- Ultimate System Links Exceeding 95 percent Flow Depth

##### **HYDRAULIC MODEL REFERENCE MAPS**

- Map 1     Existing Sewer System
- Map 2     Ultimate Sewer System

##### **MODEL COMPUTER FILES (ONE SET ONLY)**

- Disk 1     Existing Sewer Facilities Map (AutoCAD)  
              Existing Sewer Facilities Run Output Data
- Disk 2     Existing Sewer Facilities Data for Hydrographics
- Disk 3     Ultimate Sewer Facilities Map (AutCAD)
- Disk 4     City of El Centro Base Street Map  
              Ultimate Sewer Facilities Run Output Data (DBase IV)





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 1

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1	509	27	29.81	29.00	51.50	51.50	0.0015	MAIN ST. TRUN
LINK_2	405	27	30.56	30.23	53.37	52.45	0.0008	MAIN ST. TRUN
LINK_3	248	15	37.48	32.17	52.88	53.37	0.0214	IMPERIAL AVE.
LINK_4	381	15	38.09	37.48	53.97	52.88	0.0016	IMPERIAL AVE.
LINK_5	367	15	39.00	38.09	55.00	53.97	0.0024	IMPERIAL AVE.
LINK_6	448	15	40.00	39.00	56.00	55.00	0.0022	IMPERIAL AVE.
LINK_7	477	15	40.74	40.00	55.62	56.00	0.0015	IMPERIAL AVE.
LINK_8	715	15	43.47	42.23	56.22	56.30	0.0017	IMPERIAL AVE.
LINK_9	287	15	41.49	40.47	56.00	55.62	0.0035	IMPERIAL AVE.
LINK_10	348	15	42.23	41.49	56.30	56.00	0.0021	IMPERIAL AVE.
LINK_11	296	15	44.12	43.47	56.90	56.22	0.0022	IMPERIAL AVE.
LINK_12	405	15	44.77	44.12	57.11	56.90	0.0016	IMPERIAL AVE.
LINK_13	149	12	47.37	47.19	59.37	59.25	0.0012	IMPERIAL AVE.
LINK_14	183	12	47.77	47.37	59.79	59.37	0.0021	IMPERIAL AVE.
LINK_15	377	12	45.80	44.77	57.88	57.11	0.0027	IMPERIAL AVE.
LINK_16	377	12	46.54	45.80	58.66	57.88	0.0019	IMPERIAL AVE.
LINK_17	173	12	46.65	46.64	59.01	58.66	0.0000	IMPERIAL AVE.
LINK_18	220	12	47.19	46.65	59.25	59.01	0.0024	IMPERIAL AVE.
LINK_19	133	12	47.96	47.77	59.90	59.79	0.0014	IMPERIAL AVE.
LINK_20	220	12	48.28	47.96	60.19	59.90	0.0014	IMPERIAL AVE.
LINK_21	25	12	48.40	48.28	60.23	60.19	0.0048	IMPERIAL AVE.
LINK_22	34	12	48.41	48.40	60.31	60.23	0.0002	IMPERIAL AVE.
LINK_23	284	12	49.13	48.41	60.85	60.31	0.0025	IMPERIAL AVE.
LINK_24	55	12	50.04	50.32	61.54	61.55	-0.0050	IMPERIAL AVE.
LINK_25	225	12	50.32	49.52	61.55	61.28	0.0035	IMPERIAL AVE.
LINK_26	49	12	48.97	49.13	60.70	60.85	-0.0030	IMPERIAL AVE.
LINK_27	242	12	49.45	48.97	61.16	60.70	0.0019	IMPERIAL AVE.
LINK_28	65	12	49.82	49.45	61.28	61.16	0.0056	IMPERIAL AVE.
LINK_29	458	12	50.60	50.04	62.21	61.54	0.0012	IMPERIAL AVE.
LINK_30	457	12	51.26	50.60	63.04	62.21	0.0014	IMPERIAL AVE.
LINK_31	236	12	52.43	51.50	64.57	63.90	0.0039	IMPERIAL AVE.
LINK_32	242	12	52.10	51.84	63.90	63.77	0.0010	IMPERIAL AVE.
LINK_33	73	8	54.12	54.06	65.22	65.28	0.0008	B-1
LINK_34	450	12	51.84	51.26	63.77	63.04	0.0012	IMPERIAL AVE.
LINK_35	326	12	52.93	52.43	64.37	64.57	0.0015	IMPERIAL AVE.
LINK_36	355	12	53.17	52.93	64.82	64.37	0.0006	IMPERIAL AVE.
LINK_37	327	12	53.66	53.17	65.26	64.82	0.0015	IMPERIAL AVE.
LINK_38	93	12	53.80	53.66	65.28	65.26	0.0015	IMPERIAL AVE.
LINK_39	254	21	57.05	56.54	69.50	69.50	0.0020	PRISON TRUNK
LINK_40	637	21	56.54	54.52	69.50	68.30	0.0031	PRISON TRUNK
LINK_41	0	**	0.00	27.70	52.20	52.20	0.0000	
LINK_42	837	8	61.34	54.12	65.32	65.22	0.0086	B-1
LINK_43	610	18	62.58	61.36	72.00	72.00	0.0020	PRISON TRUNK
LINK_44	627	18	61.36	60.10	72.00	69.50	0.0020	PRISON TRUNK
LINK_45	646	21	60.10	58.81	69.50	69.50	0.0020	PRISON TRUNK
LINK_46	587	21	58.81	57.63	69.50	69.50	0.0020	PRISON TRUNK
LINK_47	465	27	35.84	35.10	49.91	50.66	0.0015	MAIN ST. TRUN
LINK_48	376	27	35.10	34.38	50.66	50.70	0.0019	MAIN ST. TRUN
LINK_49	616	27	34.38	34.34	50.70	51.39	0.0000	MAIN ST. TRUN



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 2

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_50	505	27	34.34	33.52	51.39	52.04	0.0016	MAIN ST. TRUN
LINK_51	415	27	33.52	33.20	52.04	52.77	0.0007	MAIN ST. TRUN
LINK_52	188	27	33.20	33.15	52.77	51.87	0.0002	MAIN ST. TRUN
LINK_53	35	27	33.15	32.98	51.87	52.63	0.0048	MAIN ST. TRUN
LINK_54	373	27	32.98	32.42	52.63	53.19	0.0015	MAIN ST. TRUN
LINK_55	435	27	32.42	31.98	53.19	53.31	0.0010	MAIN ST. TRUN
LINK_56	370	27	31.98	29.72	53.31	51.62	0.0061	MAIN ST. TRUN
LINK_57	36	27	29.72	30.62	51.62	51.62	-.0250	MAIN ST. TRUN
LINK_58	219	27	30.62	31.42	51.62	51.77	-.0030	MAIN ST. TRUN
LINK_59	346	27	31.42	30.70	51.77	53.00	0.0020	MAIN ST. TRUN
LINK_60	87	27	30.70	30.56	53.00	53.37	0.0016	MAIN ST. TRUN
LINK_61	479	22	39.28	38.25	54.20	55.07	0.0021	MAIN ST. TRUN
LINK_62	73	22	38.25	38.24	55.07	51.72	0.0001	MAIN ST. TRUN
LINK_63	66	22	38.24	38.15	51.72	54.12	0.0013	MAIN ST. TRUN
LINK_64	342	27	38.15	37.61	54.12	54.89	0.0015	MAIN ST. TRUN
LINK_65	840	27	37.64	36.97	54.89	51.27	0.0008	MAIN ST. TRUN
LINK_66	1205	27	36.97	36.16	51.27	50.30	0.0006	MAIN ST. TRUN
LINK_67	200	27	36.16	35.84	50.30	49.91	0.0016	MAIN ST. TRUN
LINK_68	28	8	45.51	45.67	53.06	52.79	-.0050	8TH STREET TR
LINK_69	270	12	45.67	45.15	52.79	53.70	0.0019	8TH STREET TR
LINK_70	394	12	45.15	44.38	53.70	52.99	0.0019	8TH STREET TR
LINK_71	252	12	44.38	43.84	52.99	53.00	0.0021	8TH STREET TR
LINK_72	236	12	43.84	43.23	53.00	52.83	0.0025	8TH STREET TR
LINK_73	184	12	43.23	43.04	52.83	53.24	0.0010	8TH STREET TR
LINK_74	354	12	43.04	42.23	53.24	53.11	0.0022	8TH STREET TR
LINK_75	205	12	42.23	41.82	53.11	53.98	0.0020	8TH STREET TR
LINK_76	241	12	41.82	41.39	53.98	52.90	0.0017	8TH STREET TR
LINK_77	522	12	41.39	40.17	52.90	54.20	0.0023	8TH STREET TR
LINK_78	190	12	45.90	45.51	53.07	53.06	0.0020	8TH STREET TR
LINK_79	207	12	46.14	45.90	52.89	53.07	0.0011	8TH STREET TR
LINK_80	174	12	46.54	46.14	53.74	52.89	0.0023	8TH STREET TR
LINK_81	324	10	47.47	46.54	54.12	53.74	0.0028	8TH STREET TR
LINK_82	614	10	48.32	47.47	54.84	54.12	0.0013	8TH STREET TR
LINK_83	209	10	48.91	48.32	55.02	54.84	0.0028	8TH STREET TR
LINK_84	365	8	49.66	48.91	55.56	55.02	0.0020	8TH STREET TR
LINK_85	359	8	50.00	49.66	56.29	55.56	0.0009	8TH STREET TR
LINK_86	352	8	50.33	50.00	56.60	56.26	0.0009	8TH STREET TR
LINK_87	185	8	51.21	50.33	57.03	56.60	0.0047	8TH STREET TR
LINK_88	179	8	51.68	51.21	57.95	57.03	0.0026	8TH STREET TR
LINK_89	351	8	52.17	51.68	58.35	57.96	0.0014	8TH STREET TR
LINK_90	335	8	52.71	51.68	59.16	58.35	0.0030	8TH STREET TR
LINK_91	108	8	53.49	52.71	59.40	59.16	0.0072	8TH STREET TR
LINK_92	70	8	53.63	53.49	59.01	59.40	0.0020	8TH STREET TR
LINK_93	373	18	41.70	41.31	53.73	54.48	0.0010	4TH STREET TR
LINK_94	207	18	41.31	41.00	54.48	54.35	0.0015	4TH STREET TR
LINK_95	179	18	41.00	40.69	54.35	54.25	0.0017	4TH STREET TR
LINK_96	189	18	40.69	39.99	54.25	53.30	0.0037	4TH STREET TR
LINK_97	184	18	39.99	39.28	53.30	54.20	0.0038	4TH STREET TR
LINK_98	364	8	49.95	48.79	57.27	56.80	0.0031	4TH STREET TR





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 3

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_99	298	8	48.79	47.79	56.80	56.43	0.0033	4TH STREET TR
LINK_100	167	10	47.77	47.49	56.43	56.46	0.0016	4TH STREET TR
LINK_101	202	10	47.49	46.77	56.46	55.61	0.0035	4TH STREET TR
LINK_102	150	12	46.77	46.51	55.61	55.51	0.0017	4TH STREET TR
LINK_103	204	12	46.51	45.89	55.51	54.84	0.0030	4TH STREET TR
LINK_104	111	12	45.89	45.84	54.84	54.82	0.0004	4TH STREET TR
LINK_105	251	12	45.84	45.17	54.52	54.82	0.0026	4TH STREET TR
LINK_106	50	12	45.17	45.10	54.52	54.52	0.0014	4TH AVE. CROS
LINK_107	102	12	45.10	44.89	54.52	54.38	0.0020	4TH STREET TR
LINK_108	197	12	44.89	44.47	54.38	54.28	0.0021	4TH STREET TR
LINK_109	190	14	44.47	43.94	54.28	54.20	0.0027	4TH STREET TR
LINK_110	170	14	43.94	43.42	54.20	54.06	0.0030	4TH STREET TR
LINK_111	203	14	43.42	42.87	54.06	54.02	0.0027	4TH STREET TR
LINK_112	163	14	42.87	42.38	54.02	53.85	0.0030	4TH STREET TR
LINK_113	189	14	42.38	41.98	53.85	53.92	0.0021	4TH STREET TR
LINK_114	194	14	41.98	41.70	53.92	53.73	0.0014	4TH STREET TR
LINK_115	162	8	49.95	49.95	57.40	57.27	0.0000	4TH STREET TR
LINK_116	208	8	50.68	49.95	58.04	57.40	0.0035	4TH STREET TR
LINK_117	236	12	50.82	50.12	62.77	62.55	0.0029	4TH STREET TR
LINK_118	244	12	50.12	49.63	62.55	62.22	0.0020	4TH STREET TR
LINK_119	325	12	49.63	49.49	62.22	61.30	0.0004	4TH STREET TR
LINK_120	239	12	49.49	48.79	61.30	61.14	0.0029	4TH STREET TR
LINK_121	248	12	48.79	48.27	61.14	60.58	0.0021	4TH STREET TR
LINK_122	235	12	48.27	47.77	60.58	59.65	0.0021	4TH STREET TR
LINK_123	300	12	47.77	47.01	59.65	58.42	0.0025	4TH STREET TR
LINK_124	118	12	47.15	47.02	58.75	58.57	0.0011	4TH STREET TR
LINK_125	225	8	51.81	51.03	58.97	58.22	0.0034	4TH STREET TR
LINK_126	167	8	51.03	50.68	58.22	58.04	0.0021	4TH STREET TR
LINK_127	415	18	33.60	33.19	50.60	50.44	0.0009	EASTSIDE TRU
LINK_128	500	18	33.19	32.63	50.44	50.48	0.0011	EASTSIDE TRU
LINK_129	183	18	32.63	32.09	50.48	50.93	0.0029	EASTSIDE TRU
LINK_130	416	18	32.06	31.99	50.93	51.26	0.0001	EASTSIDE TRU
LINK_131	60	8	31.99	31.00	51.26	52.20	0.0165	EASTSIDE TRU
LINK_132	109	8	37.00	41.88	52.20	50.90	-.0440	MAIN ST. TRUN
LINK_133	271	18	41.88	40.20	50.90	51.58	0.0062	MAIN ST. TRUN
LINK_134	413	18	40.20	39.97	51.58	53.97	0.0005	MAIN ST. TRUN
LINK_135	452	18	39.97	39.75	53.97	53.25	0.0004	MAIN ST. TRUN
LINK_136	40	18	39.75	39.82	53.25	53.29	-.0010	MAIN ST. TRUN
LINK_137	178	18	39.82	39.79	53.29	55.13	0.0001	MAIN ST. TRUN
LINK_138	47	18	39.78	39.28	55.13	54.20	0.0106	MAIN ST. TRUN
LINK_139	388	18	35.60	35.26	50.04	49.69	0.0008	EASTSIDE TRU
LINK_140	345	18	35.26	34.78	49.69	49.50	0.0013	EASTSIDE TRU
LINK_141	409	18	34.78	34.15	49.50	49.75	0.0015	EASTSIDE TRU
LINK_142	236	18	34.15	33.60	49.75	50.60	0.0023	EASTSIDE TRU
LINK_143	141	18	35.82	35.60	50.68	50.04	0.0015	EASTSIDE TRU
LINK_144	356	15	44.14	42.50	56.44	54.60	0.0046	G-1
LINK_145	356	15	42.50	40.87	54.60	53.80	0.0045	G-1
LINK_146	416	15	40.87	39.83	53.80	53.44	0.0025	EASTSIDE TRU
LINK_147	364	15	39.83	39.05	53.44	52.68	0.0021	EASTSIDE TRU



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 4

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION	
LINK_148	358	15	39.05	38.41	52.68	52.39	0.0017	EASTSIDE	TRU
LINK_149	386	15	38.41	37.80	52.39	51.98	0.0015	EASTSIDE	TRU
LINK_150	368	15	37.80	37.16	51.98	51.63	0.0017	EASTSIDE	TRU
LINK_151	369	15	37.16	36.75	51.63	51.34	0.0011	EASTSIDE	TRU
LINK_152	379	18	36.75	36.31	51.34	50.83	0.0011	EASTSIDE	TRU
LINK_153	197	18	36.31	35.82	50.83	50.68	0.0024	EASTSIDE	TRU
LINK_154	456	27	44.49	44.01	56.00	55.50	0.0010	LA BRUCHERIE	
LINK_155	637	27	44.01	43.05	55.50	55.70	0.0015	LA BRUCHERIE	
LINK_156	468	30	43.05	41.90	54.70	53.90	0.0024	LA BRUCHERIE	
LINK_157	364	30	41.90	41.26	53.90	53.50	0.0017	LA BRUCHERIE	
LINK_158	456	30	41.26	40.54	53.50	53.00	0.0015	LA BRUCHERIE	
LINK_159	462	30	40.54	39.82	53.00	52.50	0.0015	LA BRUCHERIE	
LINK_160	487	30	40.95	39.02	52.50	52.00	0.0039	LA BRUCHERIE	
LINK_161	493	30	39.02	38.22	52.00	51.50	0.0016	LA BRUCHERIE	
LINK_162	465	30	38.22	37.46	51.50	50.00	0.0016	LA BRUCHERIE	
LINK_163	557	30	37.46	36.62	50.00	49.50	0.0015	LA BRUCHERIE	
LINK_164	484	30	36.62	31.18	49.50	49.50	0.0112	LA BRUCHERIE	
LINK_165	242	30	31.18	31.00	49.50	49.50	0.0007	LA BRUCHERIE	
LINK_166	301	27	51.40	50.85	64.40	64.20	0.0018	LA BRUCHERIE	
LINK_167	373	27	50.85	50.25	64.20	63.00	0.0016	LA BRUCHERIE	
LINK_168	387	27	50.25	49.67	63.00	62.50	0.0015	LA BRUCHERIE	
LINK_169	342	27	49.67	49.13	62.50	62.00	0.0015	LA BRUCHERIE	
LINK_170	447	27	49.13	48.49	62.00	61.00	0.0014	LA BRUCHERIE	
LINK_171	323	27	48.49	48.01	61.00	60.50	0.0014	LA BRUCHERIE	
LINK_172	359	27	48.01	47.43	60.50	60.00	0.0016	LA BRUCHERIE	
LINK_173	365	27	47.43	46.99	60.00	58.50	0.0012	LA BRUCHERIE	
LINK_174	410	27	46.99	46.31	58.50	57.50	0.0016	LA BRUCHERIE	
LINK_175	574	27	46.31	45.37	57.50	57.20	0.0016	LA BRUCHERIE	
LINK_176	606	27	45.37	44.49	57.20	56.00	0.0014	LA BRUCHERIE	
LINK_177	247	24	61.00	60.38	69.00	69.00	0.0025	LA BRUCHERIE	
LINK_178	921	24	60.38	58.73	69.00	69.00	0.0017	LA BRUCHERIE	
LINK_179	566	24	58.07	57.63	69.06	69.00	0.0007	LA BRUCHERIE	
LINK_180	614	24	57.63	56.43	69.00	69.00	0.0019	LA BRUCHERIE	
LINK_181	563	24	56.43	55.29	69.00	68.60	0.0020	LA BRUCHERIE	
LINK_182	336	24	55.29	54.80	68.60	68.20	0.0014	LA BRUCHERIE	
LINK_183	215	24	54.80	54.44	68.20	67.70	0.0016	LA BRUCHERIE	
LINK_184	96	24	54.44	54.31	67.70	67.60	0.0013	LA BRUCHERIE	
LINK_185	298	24	54.31	53.85	67.60	67.40	0.0015	LA BRUCHERIE	
LINK_186	121	24	53.85	53.64	67.40	67.00	0.0017	LA BRUCHERIE	
LINK_187	507	24	53.64	52.70	67.00	65.50	0.0018	LA BRUCHERIE	
LINK_188	218	27	52.70	52.30	65.50	65.30	0.0018	LA BRUCHERIE	
LINK_189	297	27	52.30	51.84	65.30	64.70	0.0015	LA BRUCHERIE	
LINK_190	106	27	51.84	51.68	64.70	64.55	0.0015	LA BRUCHERIE	
LINK_191	198	27	51.68	51.40	64.55	64.40	0.0014	LA BRUCHERIE	
LINK_192	302	8	58.61	58.00	65.93	65.20	0.0020	A-1	
LINK_193	343	8	58.00	57.48	65.20	64.80	0.0015	A-1	
LINK_194	307	8	57.48	56.95	64.80	64.50	0.0017	A-1	
LINK_195	354	8	56.95	56.48	64.50	64.10	0.0013	A-1	
LINK_196	292	8	56.48	55.72	64.10	64.60	0.0026	A-1	





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 5

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_197	303	8	55.72	55.60	64.60	64.70	0.0004	A-1
LINK_198	298	8	55.60	55.00	64.70	65.50	0.0020	A-1
LINK_199	286	8	60.35	59.78	65.30	64.80	0.0019	A-1
LINK_200	337	8	59.78	59.26	64.80	64.40	0.0015	A-1
LINK_201	298	8	59.26	58.73	64.40	64.10	0.0017	A-1
LINK_202	356	8	58.73	58.21	64.10	63.70	0.0014	A-1
LINK_203	300	8	58.21	57.50	63.70	64.20	0.0023	A-1
LINK_204	297	8	57.50	57.38	64.20	64.30	0.0004	A-1
LINK_205	284	8	57.38	53.80	64.30	65.30	0.0126	A-1
LINK_206	282	8	58.71	58.08	64.30	64.00	0.0022	A-1
LINK_207	304	8	58.08	57.45	64.00	63.70	0.0020	A-1
LINK_208	363	8	57.45	56.83	63.70	63.30	0.0017	A-1
LINK_209	288	8	56.83	56.26	63.30	63.60	0.0019	A-1
LINK_210	299	8	56.26	55.66	63.60	63.90	0.0020	A-1
LINK_211	285	8	55.66	55.06	63.90	64.70	0.0021	A-1
LINK_212	290	8	58.86	58.24	63.50	63.60	0.0021	A-1
LINK_213	301	8	58.24	57.62	63.60	63.30	0.0020	A-1
LINK_214	367	8	57.62	57.00	63.30	63.00	0.0016	A-1
LINK_215	291	8	57.00	56.41	63.00	63.40	0.0020	A-1
LINK_216	293	8	56.41	55.82	63.40	63.70	0.0020	A-1
LINK_217	284	8	55.82	55.23	63.70	64.40	0.0020	A-1
LINK_218	293	8	60.57	60.12	65.34	66.06	0.0015	A-1
LINK_219	232	8	60.47	59.95	67.00	66.50	0.0022	A-1
LINK_220	254	8	60.70	59.58	66.60	66.40	0.0044	A-1
LINK_221	380	8	59.13	58.39	66.30	66.00	0.0019	A-1
LINK_222	431	8	59.29	58.39	66.46	66.88	0.0020	A-1
LINK_223	463	8	58.39	57.50	66.88	68.20	0.0019	A-1
LINK_224	439	8	58.59	57.70	66.10	66.50	0.0020	A-1
LINK_225	455	8	57.70	56.80	66.50	67.60	0.0019	A-1
LINK_226	203	8	58.50	57.89	66.95	66.70	0.0030	A-1
LINK_227	449	8	57.89	56.99	66.70	67.58	0.0020	A-1
LINK_228	457	8	56.99	56.44	67.58	68.60	0.0012	A-1
LINK_229	235	8	60.12	59.52	66.06	66.64	0.0025	A-1
LINK_230	266	8	59.52	59.11	66.64	66.84	0.0015	A-1
LINK_231	244	8	59.11	58.51	66.84	67.14	0.0024	A-1
LINK_232	236	8	59.43	59.11	67.78	67.44	0.0013	A-1
LINK_233	312	8	59.11	58.51	67.44	67.14	0.0019	A-1
LINK_234	316	8	58.51	57.89	67.14	66.72	0.0019	A-1
LINK_235	288	8	61.34	61.16	68.80	68.70	0.0006	BB-1
LINK_236	333	8	61.16	60.73	68.70	68.20	0.0012	BB-1
LINK_237	321	8	60.73	60.29	68.20	67.80	0.0013	BB-1
LINK_238	351	8	58.39	57.70	66.00	66.40	0.0019	A-1
LINK_239	346	8	57.70	57.01	66.40	66.50	0.0019	A-1
LINK_240	195	8	57.01	56.60	66.50	67.40	0.0021	A-1
LINK_241	610	8	46.51	45.53	51.56	51.84	0.0016	B-5
LINK_242	270	8	47.29	46.36	52.64	52.34	0.0034	B-5
LINK_243	331	8	46.36	45.40	52.34	51.84	0.0029	B-5
LINK_244	256	8	48.02	47.07	53.12	52.76	0.0037	B-5
LINK_245	313	8	47.07	46.06	52.76	52.30	0.0032	B-5



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 6

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_246	257	8	47.27	46.68	51.95	52.15	0.0023	B-5
LINK_247	295	8	46.86	46.06	52.15	52.30	0.0027	B-5
LINK_248	311	8	47.95	47.44	52.37	52.67	0.0016	B-5
LINK_249	215	8	47.44	46.88	52.67	52.67	0.0026	B-5
LINK_250	258	8	48.65	47.76	53.55	53.27	0.0034	B-5
LINK_251	307	8	47.76	46.67	53.27	52.67	0.0035	B-5
LINK_252	329	8	46.67	46.06	52.67	52.30	0.0018	B-5
LINK_253	317	8	46.06	45.40	52.30	51.84	0.0020	B-5
LINK_254	130	8	45.40	45.29	51.84	51.87	0.0008	B-5
LINK_255	127	8	45.29	44.47	51.87	51.58	0.0064	B-5
LINK_256	239	8	44.47	44.26	51.58	51.30	0.0008	B-5
LINK_257	156	8	44.26	43.87	51.30	51.22	0.0025	B-5
LINK_258	184	8	43.87	43.52	51.22	50.97	0.0019	B-5
LINK_259	202	8	43.52	42.40	50.97	51.15	0.0055	B-5
LINK_260	111	8	46.00	45.30	51.50	51.01	0.0063	B-5
LINK_261	285	8	45.30	44.68	51.01	50.68	0.0021	B-5
LINK_262	312	8	44.68	44.23	50.68	49.86	0.0014	B-5
LINK_263	179	8	44.23	43.10	49.86	50.00	0.0063	B-5
LINK_264	317	12	43.10	42.49	50.00	50.25	0.0019	B-5
LINK_265	290	12	42.49	41.94	50.25	51.15	0.0019	B-5
LINK_266	308	12	41.94	41.37	51.15	51.87	0.0018	B-5
LINK_267	410	12	41.37	40.50	51.87	53.37	0.0021	B-5
LINK_268	344	8	49.18	48.95	54.18	54.52	0.0006	B-4
LINK_269	414	8	48.95	47.01	54.52	53.47	0.0046	B-4
LINK_270	371	8	49.63	48.90	54.67	54.23	0.0019	B-4
LINK_271	384	8	48.90	48.17	54.23	53.41	0.0019	B-4
LINK_272	400	8	49.70	48.90	55.20	54.73	0.0020	B-4
LINK_273	348	8	48.90	48.10	54.73	53.89	0.0023	B-4
LINK_274	332	8	44.21	43.95	53.89	53.41	0.0007	B-4
LINK_275	334	8	43.95	43.70	53.41	53.74	0.0007	B-4
LINK_276	328	8	43.70	43.09	53.74	53.19	0.0018	B-4
LINK_277	290	8	45.99	44.95	55.25	55.70	0.0035	B-4
LINK_278	352	8	46.18	45.99	55.58	55.25	0.0005	B-4
LINK_279	302	8	46.82	46.18	55.90	55.58	0.0021	B-4
LINK_280	288	8	46.82	46.24	53.90	54.20	0.0020	B-4
LINK_281	332	8	46.24	45.60	54.20	54.30	0.0019	B-4
LINK_282	321	8	45.60	44.95	54.30	55.70	0.0020	B-4
LINK_283	173	8	44.95	44.66	55.70	54.26	0.0016	B-4
LINK_284	224	8	45.70	45.24	54.40	54.20	0.0020	B-4
LINK_285	289	8	45.24	44.66	54.20	54.26	0.0020	B-4
LINK_286	425	8	44.66	43.87	54.26	54.06	0.0018	B-4
LINK_287	394	8	43.87	43.09	54.06	53.19	0.0019	B-4
LINK_288	349	8	43.09	42.46	53.19	52.90	0.0018	B-4
LINK_289	484	8	42.46	41.69	52.90	52.35	0.0015	B-4
LINK_290	325	8	41.69	40.70	52.35	52.45	0.0030	B-4
LINK_291	284	8	48.16	47.60	52.67	52.92	0.0019	B-4
LINK_292	310	8	48.66	47.60	53.36	52.90	0.0034	B-4
LINK_293	151	8	47.60	47.25	52.90	54.07	0.0023	B-4
LINK_294	274	8	47.25	46.02	54.07	54.00	0.0044	B-4



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 7

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_295	394	8	46.02	45.03	54.00	51.97	0.0025	B-4
LINK_296	458	8	50.29	49.80	57.34	56.86	0.0010	B-3
LINK_297	427	8	49.80	48.84	56.86	56.38	0.0022	B-3
LINK_298	461	8	48.84	47.72	56.38	56.26	0.0024	B-3
LINK_299	302	8	47.72	46.66	56.26	55.80	0.0035	B-3
LINK_300	136	8	46.66	46.25	55.80	55.84	0.0030	B-3
LINK_301	435	8	46.25	45.44	55.84	55.29	0.0018	B-3
LINK_302	70	8	45.44	45.32	55.29	55.62	0.0017	B-3
LINK_303	253	8	51.62	50.95	56.62	56.76	0.0026	B-3
LINK_304	171	8	50.95	50.78	56.76	54.71	0.0009	B-3
LINK_305	188	8	50.78	50.47	54.71	56.00	0.0016	B-3
LINK_306	553	8	52.44	50.60	57.71	57.27	0.0033	B-3
LINK_307	329	8	50.60	49.86	57.27	56.80	0.0022	B-3
LINK_308	348	8	49.89	49.02	56.80	56.27	0.0025	B-3
LINK_309	320	8	49.02	47.99	56.27	56.22	0.0032	B-3
LINK_310	261	8	47.99	47.57	56.22	56.20	0.0016	B-3
LINK_311	58	8	47.57	47.47	56.20	56.30	0.0017	B-3
LINK_312	408	8	51.50	50.85	59.20	58.85	0.0015	B-3
LINK_313	345	8	50.86	50.35	58.85	59.38	0.0014	B-3
LINK_314	377	8	50.35	49.03	59.38	57.91	0.0035	B-3
LINK_315	330	8	49.03	48.12	57.91	56.22	0.0027	B-3
LINK_316	507	8	49.95	48.55	59.66	60.31	0.0027	C-2
LINK_317	347	8	51.40	49.95	60.40	59.66	0.0041	C-2
LINK_318	458	8	51.57	50.71	60.50	59.95	0.0018	B-3
LINK_319	215	8	50.71	50.28	59.95	59.79	0.0020	B-3
LINK_320	320	8	54.79	54.70	60.93	61.00	0.0002	B-3
LINK_321	333	8	54.70	54.08	61.00	60.50	0.0018	B-3
LINK_322	160	8	54.08	53.44	60.50	60.32	0.0040	B-3
LINK_323	295	8	53.44	53.07	60.32	59.85	0.0012	B-3
LINK_324	301	8	53.07	52.47	59.85	59.79	0.0019	B-3
LINK_325	511	8	50.23	49.30	59.79	59.00	0.0018	B-3
LINK_326	490	8	49.30	48.46	59.00	58.20	0.0017	B-3
LINK_327	53	10	48.46	48.35	58.20	58.19	0.0020	B-3
LINK_328	257	10	48.35	46.39	58.19	57.11	0.0076	B-3
LINK_329	92	8	54.21	53.81	59.96	60.23	0.0043	B-3
LINK_330	208	8	54.69	53.86	59.75	60.23	0.0039	B-3
LINK_331	47	8	53.86	53.81	60.52	60.23	0.0010	B-3
LINK_332	264	8	53.81	53.11	60.23	60.47	0.0026	B-3
LINK_333	280	8	53.11	52.22	60.47	61.22	0.0031	B-3
LINK_334	299	8	52.22	51.53	61.22	60.31	0.0023	B-3
LINK_335	287	8	51.53	50.64	60.31	59.72	0.0031	B-3
LINK_336	257	8	50.64	49.77	59.72	59.07	0.0033	B-3
LINK_337	235	8	49.77	47.70	59.07	59.01	0.0088	B-3
LINK_338	283	8	54.22	53.77	61.50	61.50	0.0015	B-3
LINK_339	404	8	53.77	53.13	61.50	61.60	0.0015	B-3
LINK_340	367	8	53.13	51.73	61.60	60.67	0.0038	B-3
LINK_341	413	8	51.73	50.52	60.67	59.79	0.0029	B-3
LINK_342	254	8	50.52	49.72	59.79	59.34	0.0031	B-3
LINK_343	242	8	49.72	48.80	59.34	59.25	0.0038	B-3





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 8

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_344	402	8	57.39	56.61	62.81	62.36	0.0019	B-3
LINK_345	468	8	56.61	55.77	62.36	61.66	0.0017	B-3
LINK_346	416	8	52.62	48.32	60.21	59.90	0.0103	B-3
LINK_347	415	8	57.93	56.00	62.88	62.54	0.0046	B-3
LINK_348	459	8	56.00	54.29	62.54	61.67	0.0037	B-3
LINK_349	410	8	54.29	52.35	61.67	60.85	0.0047	B-3
LINK_350	371	8	57.39	56.61	62.81	62.36	0.0021	B-3
LINK_351	427	8	56.61	55.77	62.36	61.66	0.0019	B-3
LINK_352	395	8	55.77	54.90	61.66	61.46	0.0022	B-3
LINK_353	134	8	54.90	52.95	61.46	61.71	0.0145	B-3
LINK_354	864	12	52.95	50.24	61.71	60.32	0.0031	B-3
LINK_355	429	12	50.24	48.32	60.32	59.90	0.0044	B-3
LINK_356	425	8	56.08	53.66	62.32	62.07	0.0056	B-3
LINK_357	440	8	53.66	52.00	62.07	61.22	0.0037	B-3
LINK_358	395	8	52.00	50.55	61.22	60.31	0.0036	B-3
LINK_359	504	8	57.72	56.00	63.32	62.00	0.0034	B-3
LINK_360	418	8	56.00	54.00	62.50	61.50	0.0047	B-3
LINK_361	349	8	54.00	52.42	61.50	60.85	0.0045	B-3
LINK_362	194	8	57.00	56.58	64.50	63.84	0.0021	B-2
LINK_363	188	8	60.12	58.31	64.99	64.62	0.0096	B-2
LINK_364	191	8	59.63	59.19	65.44	65.25	0.0023	B-2
LINK_365	160	8	59.77	59.03	65.26	65.25	0.0046	B-2
LINK_366	287	8	59.03	58.31	65.25	64.62	0.0025	B-2
LINK_367	298	8	58.31	57.42	64.62	64.25	0.0029	B-2
LINK_368	187	8	58.47	57.86	65.82	65.55	0.0032	B-2
LINK_369	178	8	59.42	58.88	66.18	65.83	0.0030	B-2
LINK_370	275	8	59.90	59.35	66.20	66.00	0.0020	B-2
LINK_371	173	8	59.35	58.88	66.00	65.83	0.0027	B-2
LINK_372	307	8	58.88	58.06	65.83	65.55	0.0026	B-2
LINK_373	268	8	57.86	57.58	65.55	65.06	0.0010	B-2
LINK_374	364	8	58.64	57.84	65.06	65.58	0.0022	B-2
LINK_375	324	8	57.84	56.05	65.58	64.30	0.0055	B-2
LINK_376	173	8	58.64	58.07	65.19	65.44	0.0032	B-2
LINK_377	332	8	58.07	57.06	65.44	65.04	0.0030	B-2
LINK_378	333	8	57.06	56.35	65.04	64.73	0.0021	B-2
LINK_379	344	8	58.94	57.92	66.15	65.60	0.0029	B-2
LINK_380	474	8	57.92	56.79	65.60	65.24	0.0023	B-2
LINK_381	347	12	56.79	56.09	65.24	64.73	0.0020	B-2
LINK_382	294	12	56.09	55.61	64.73	64.30	0.0016	B-2
LINK_383	321	12	55.61	55.00	64.30	63.95	0.0019	B-2
LINK_384	298	12	55.00	54.45	63.95	63.70	0.0018	B-2
LINK_385	167	8	59.49	59.16	64.80	64.64	0.0019	B-2
LINK_386	323	8	59.16	58.11	64.64	64.18	0.0032	B-2
LINK_387	341	8	58.11	56.81	64.18	63.95	0.0038	B-2
LINK_388	155	12	54.45	54.03	63.70	63.59	0.0027	B-2
LINK_389	308	8	58.83	56.73	64.52	63.85	0.0068	B-2
LINK_390	353	8	56.75	54.64	63.85	63.70	0.0059	B-2
LINK_391	426	8	55.63	54.64	63.00	63.70	0.0023	B-2
LINK_392	455	8	55.63	53.96	63.00	62.12	0.0036	B-2





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 9

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_393	396	8	53.96	50.68	62.12	61.79	0.0082	B-2
LINK_394	320	8	51.89	50.68	62.16	61.79	0.0037	B-2
LINK_395	139	8	50.68	50.32	61.79	61.55	0.0025	B-2
LINK_396	367	8	56.81	56.18	63.95	63.20	0.0017	B-2
LINK_397	463	8	56.18	54.38	63.20	62.27	0.0038	B-2
LINK_398	395	8	54.38	52.16	62.27	62.13	0.0056	B-2
LINK_399	397	8	59.58	57.78	64.77	64.01	0.0045	B-2
LINK_400	448	8	57.78	56.04	64.01	63.32	0.0038	B-2
LINK_401	354	8	59.87	58.49	65.24	64.73	0.0039	B-2
LINK_402	458	8	58.49	57.08	64.73	64.00	0.0030	B-2
LINK_403	325	8	57.00	56.04	64.00	63.32	0.0029	B-2
LINK_404	302	8	56.04	54.88	63.32	62.80	0.0038	B-2
LINK_405	376	8	58.41	56.65	64.47	63.69	0.0046	B-2
LINK_406	467	8	56.65	54.88	63.69	62.80	0.0037	B-2
LINK_407	417	8	54.88	53.21	62.80	62.82	0.0040	B-2
LINK_408	228	8	54.43	53.97	63.20	63.11	0.0020	B-2
LINK_409	182	8	53.97	53.21	63.11	62.82	0.0041	B-2
LINK_410	310	8	53.21	51.89	62.82	62.16	0.0042	B-2
LINK_411	327	8	58.21	57.42	64.70	64.25	0.0024	B-2
LINK_412	292	8	57.42	56.58	64.25	63.84	0.0028	B-2
LINK_413	327	8	56.58	55.65	63.84	63.43	0.0028	B-2
LINK_414	336	8	55.65	54.48	63.43	63.45	0.0034	B-2
LINK_415	145	8	54.48	54.03	63.45	63.59	0.0031	B-2
LINK_416	421	12	54.03	52.62	63.59	63.22	0.0033	B-2
LINK_417	462	12	52.62	51.53	63.22	62.15	0.0023	B-2
LINK_418	396	12	51.53	50.32	62.15	61.55	0.0030	B-2
LINK_419	218	8	60.11	59.15	66.22	66.44	0.0044	B-2
LINK_420	209	8	60.43	59.83	67.07	66.85	0.0028	B-2
LINK_421	225	8	61.44	60.75	67.49	67.30	0.0030	B-2
LINK_422	222	8	62.23	61.55	67.86	67.86	0.0030	B-2
LINK_423	300	8	61.55	60.75	67.68	67.30	0.0026	B-2
LINK_424	172	8	60.75	60.20	67.30	67.10	0.0032	B-2
LINK_425	147	8	60.20	59.83	67.10	66.85	0.0025	B-2
LINK_426	243	8	59.83	59.15	66.85	66.44	0.0028	B-2
LINK_427	496	8	59.08	58.10	66.44	65.98	0.0019	B-2
LINK_428	488	8	58.10	57.34	65.98	65.38	0.0015	B-2
LINK_429	431	8	60.58	59.59	64.76	65.28	0.0023	B-2
LINK_430	411	8	59.59	58.50	65.28	66.00	0.0026	B-2
LINK_431	350	8	59.33	58.60	65.01	65.18	0.0020	B-2
LINK_432	353	8	58.60	57.78	65.18	65.76	0.0023	B-2
LINK_433	347	8	59.05	58.14	64.58	64.81	0.0026	B-2
LINK_434	358	8	58.14	57.34	64.81	65.38	0.0022	B-2
LINK_435	378	8	60.94	60.02	65.60	65.77	0.0024	B-2
LINK_436	340	8	60.02	59.34	65.77	66.27	0.0020	B-2
LINK_437	285	8	59.34	58.50	66.27	66.00	0.0029	B-2
LINK_438	284	8	58.50	57.78	66.00	65.76	0.0025	B-2
LINK_439	291	12	57.78	57.15	65.76	65.38	0.0021	B-2
LINK_440	293	12	57.15	56.79	65.38	65.24	0.0012	B-2
LINK_441	361	8	62.66	61.93	67.66	66.97	0.0020	B-1



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 10

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_442	377	8	61.93	61.18	66.97	66.60	0.0019	B-1
LINK_443	340	8	61.18	57.43	66.60	66.88	0.0110	B-1
LINK_444	279	8	57.43	56.99	68.88	66.70	0.0015	B-1
LINK_445	227	8	56.99	56.36	66.70	66.27	0.0027	B-1
LINK_446	272	8	56.36	55.72	66.27	66.02	0.0023	B-1
LINK_447	394	8	63.57	62.85	68.01	67.70	0.0018	B-1
LINK_448	336	8	62.85	62.15	67.70	67.36	0.0020	B-1
LINK_449	332	8	62.15	59.68	67.36	67.64	0.0074	B-1
LINK_450	261	8	59.68	58.80	67.64	66.50	0.0033	B-1
LINK_451	227	8	58.80	58.13	66.55	65.67	0.0029	B-1
LINK_452	293	8	58.13	56.97	65.67	66.22	0.0039	B-1
LINK_453	154	8	58.15	56.23	65.66	65.59	0.0124	B-1
LINK_454	447	8	63.49	62.77	67.99	67.23	0.0016	B-1
LINK_455	328	8	62.77	62.04	67.23	67.07	0.0022	B-1
LINK_456	337	8	62.04	58.77	67.07	67.25	0.0097	B-1
LINK_457	207	8	58.77	57.76	67.25	67.59	0.0048	B-1
LINK_458	296	8	57.76	56.97	67.59	66.22	0.0026	B-1
LINK_459	174	8	56.97	56.56	66.22	65.36	0.0023	B-1
LINK_460	214	8	56.56	56.23	65.36	65.59	0.0015	B-1
LINK_461	313	8	56.23	55.68	65.59	65.32	0.0017	B-1
LINK_462	250	8	55.68	55.00	65.32	65.66	0.0027	B-1
LINK_463	416	8	62.44	61.61	67.05	66.61	0.0020	B-1
LINK_464	414	8	61.61	57.62	66.61	66.98	0.0096	B-1
LINK_465	393	8	57.62	56.80	66.98	66.48	0.0020	B-1
LINK_466	319	8	56.80	56.11	66.48	66.32	0.0021	B-1
LINK_467	209	8	56.11	55.72	66.32	66.02	0.0018	B-1
LINK_468	145	8	55.72	55.63	66.02	65.85	0.0006	B-1
LINK_469	224	8	55.63	55.00	65.85	65.66	0.0028	B-1
LINK_470	369	8	55.63	54.12	65.66	65.26	0.0040	B-1
LINK_471	191	8	52.73	52.22	57.57	56.59	0.0026	C-4
LINK_472	320	8	53.58	52.73	58.34	57.57	0.0026	C-4
LINK_473	231	8	47.30	46.83	52.35	52.82	0.0020	C-5
LINK_474	323	8	46.83	46.15	52.82	53.28	0.0021	C-5
LINK_475	361	8	46.15	45.47	53.28	53.60	0.0018	C-5
LINK_476	141	8	45.47	45.20	53.60	53.70	0.0019	C-5
LINK_477	332	8	46.76	46.16	53.48	53.78	0.0018	C-5
LINK_478	296	8	46.16	45.56	53.78	53.92	0.0020	C-5
LINK_479	178	8	45.56	45.20	53.92	53.70	0.0020	C-5
LINK_480	195	8	45.20	44.90	53.70	53.10	0.0015	C-5
LINK_481	125	8	44.90	44.69	53.10	53.10	0.0016	C-5
LINK_482	227	8	44.69	44.20	53.10	53.51	0.0021	C-5
LINK_483	45	8	44.20	44.05	53.51	53.51	0.0033	C-5
LINK_484	629	8	44.05	43.28	53.51	52.03	0.0012	C-5
LINK_485	322	8	43.28	40.50	52.03	53.00	0.0086	C-5
LINK_486	340	6	54.87	51.66	60.45	60.49	0.0094	C-2
LINK_487	110	6	56.53	55.26	61.55	61.29	0.0115	C-2
LINK_488	313	6	55.26	52.12	61.29	61.32	0.0100	C-2
LINK_489	474	8	56.00	55.24	61.40	61.68	0.0016	C-2
LINK_490	469	8	56.01	55.63	60.85	61.39	0.0008	C-2



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE PHYSICAL DATA REPORT  
 FILE RUN: SY\_ERUN1

10/10/94  
 PAGE 11

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_491	527	6	55.63	54.77	61.39	61.77	0.0016	C-2
LINK_492	116	6	54.77	54.07	61.77	61.76	0.0060	C-2
LINK_493	272	6	54.07	52.61	61.76	61.64	0.0053	C-2
LINK_494	453	8	55.24	54.09	61.68	62.34	0.0025	C-2
LINK_495	166	8	54.09	53.87	62.34	62.52	0.0013	C-2
LINK_496	266	8	53.87	53.35	62.52	62.85	0.0019	C-2
LINK_497	155	10	53.55	53.35	62.61	62.85	0.0012	C-2
LINK_498	319	10	53.35	52.61	62.85	61.64	0.0023	C-2
LINK_499	313	10	52.61	52.12	61.64	61.32	0.0015	C-2
LINK_500	308	10	52.12	51.49	61.32	60.94	0.0020	C-2
LINK_501	152	10	51.49	51.33	60.94	60.70	0.0010	C-2
LINK_502	332	10	51.33	50.63	60.70	61.28	0.0021	C-2
LINK_503	350	6	55.46	52.89	60.75	61.01	0.0073	C-2
LINK_504	387	6	52.89	50.50	61.01	61.11	0.0061	C-2
LINK_505	357	6	58.86	57.52	63.01	62.52	0.0037	C-2
LINK_506	313	6	57.52	53.92	62.52	61.54	0.0115	C-2
LINK_507	318	6	53.92	50.63	61.54	61.28	0.0103	C-2
LINK_508	169	10	50.63	50.50	61.28	61.11	0.0007	C-2
LINK_509	182	10	50.50	50.19	61.11	60.62	0.0017	C-2
LINK_510	230	10	50.19	49.82	60.62	61.28	0.0016	C-2
LINK_511	82	8	59.04	58.91	62.98	62.56	0.0015	C-2
LINK_512	263	8	59.20	59.04	62.50	62.56	0.0006	C-2
LINK_513	296	8	58.91	58.42	62.56	64.19	0.0016	C-2
LINK_514	313	8	58.42	57.65	64.19	62.31	0.0024	C-2
LINK_515	377	8	59.45	58.56	62.91	62.65	0.0023	C-2
LINK_516	266	8	58.36	57.65	62.65	62.31	0.0026	C-2
LINK_517	168	8	57.65	56.97	62.31	61.94	0.0040	C-2
LINK_518	208	8	56.97	56.32	61.94	62.20	0.0031	C-2
LINK_519	346	8	56.32	55.56	62.20	62.31	0.0022	C-2
LINK_520	292	8	55.56	54.77	62.31	62.56	0.0027	C-2
LINK_521	405	8	57.53	56.55	62.67	63.20	0.0024	C-2
LINK_522	284	8	56.55	55.76	63.20	63.17	0.0027	C-2
LINK_523	381	8	58.10	57.65	63.50	63.46	0.0011	C-2
LINK_524	349	8	57.65	56.76	63.46	63.81	0.0025	C-2
LINK_525	277	8	58.29	57.40	64.32	64.10	0.0032	C-2
LINK_526	326	8	57.40	56.76	64.10	63.81	0.0019	C-2
LINK_527	371	8	56.76	55.76	63.81	63.17	0.0027	C-2
LINK_528	372	8	55.76	54.77	63.17	62.56	0.0026	C-2
LINK_529	202	8	54.77	54.20	62.56	62.62	0.0028	C-2
LINK_530	123	8	54.20	53.81	62.62	62.61	0.0031	C-2
LINK_531	342	8	56.90	53.55	63.05	62.61	0.0098	C-2
LINK_532	213	6	58.81	56.90	63.56	63.05	0.0089	C-2
LINK_533	80	8	57.45	57.34	62.65	62.65	0.0013	C-1
LINK_534	326	8	58.21	57.76	63.96	63.26	0.0013	C-1
LINK_535	281	8	57.76	57.34	63.26	62.65	0.0014	C-1
LINK_536	582	8	57.34	56.40	62.65	62.49	0.0016	C-1
LINK_537	281	8	56.40	56.02	62.49	62.94	0.0013	C-1
LINK_538	137	8	59.20	59.07	65.20	65.10	0.0009	C-1
LINK_539	210	8	60.29	58.75	65.53	65.10	0.0073	C-1





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 12

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_540	273	8	60.42	59.48	65.14	64.73	0.0034	C-1
LINK_541	262	8	60.53	59.93	64.57	64.24	0.0022	C-1
LINK_542	161	8	60.20	59.93	64.00	64.24	0.0016	C-1
LINK_543	297	8	59.93	59.48	64.24	64.73	0.0015	C-1
LINK_544	163	8	59.48	59.07	64.73	64.87	0.0025	C-1
LINK_545	140	8	59.07	58.75	64.87	65.10	0.0022	C-1
LINK_546	302	8	58.75	57.98	65.10	64.66	0.0025	C-1
LINK_547	553	8	58.64	57.76	64.03	65.06	0.0015	C-1
LINK_548	82	8	58.08	57.76	65.06	65.93	0.0039	C-1
LINK_549	246	8	57.76	57.45	65.93	64.36	0.0012	C-1
LINK_550	440	8	58.29	57.67	63.50	64.15	0.0014	C-1
LINK_551	133	8	57.76	57.45	64.15	64.36	0.0023	C-1
LINK_552	123	8	57.45	57.17	64.36	64.29	0.0022	C-1
LINK_553	183	8	57.17	56.94	64.29	64.07	0.0012	C-1
LINK_554	168	8	59.12	58.75	65.08	65.11	0.0022	C-1
LINK_555	271	8	58.20	57.49	64.72	64.52	0.0026	C-1
LINK_556	358	8	58.78	58.20	65.05	64.72	0.0016	C-1
LINK_557	301	8	59.34	58.78	65.39	65.05	0.0018	C-1
LINK_558	119	8	59.23	58.68	65.33	65.04	0.0046	C-1
LINK_559	124	8	59.90	59.37	65.65	65.47	0.0042	C-1
LINK_560	129	8	60.24	59.97	65.87	65.87	0.0020	C-1
LINK_561	303	8	58.68	57.98	65.04	64.66	0.0023	C-1
LINK_562	309	8	59.37	58.68	65.47	65.04	0.0022	C-1
LINK_563	323	8	59.97	59.37	65.87	65.47	0.0018	C-1
LINK_564	275	8	59.97	59.34	65.87	65.39	0.0022	C-1
LINK_565	278	8	59.34	58.75	65.39	65.11	0.0021	C-1
LINK_566	173	8	58.75	58.46	65.11	64.67	0.0016	C-1
LINK_567	406	8	58.46	57.66	64.67	64.45	0.0019	C-1
LINK_568	348	8	57.66	56.94	64.45	64.07	0.0020	C-1
LINK_569	111	8	58.49	57.98	64.97	64.66	0.0045	C-1
LINK_570	295	8	57.98	57.49	64.66	64.52	0.0016	C-1
LINK_571	310	8	57.49	56.94	64.52	64.07	0.0017	C-1
LINK_572	146	8	56.94	56.32	64.07	63.68	0.0042	C-1
LINK_573	484	8	56.32	55.58	63.68	63.20	0.0015	C-1
LINK_574	382	8	57.23	56.44	63.69	64.32	0.0020	C-1
LINK_575	417	8	56.44	55.40	64.32	64.40	0.0024	C-1
LINK_576	317	8	55.40	54.59	64.40	64.43	0.0025	C-1
LINK_577	330	8	57.00	56.27	62.20	62.17	0.0022	C-1
LINK_578	343	8	56.27	56.02	62.16	62.94	0.0007	C-1
LINK_579	345	8	56.02	55.63	62.94	63.20	0.0011	C-1
LINK_580	362	8	55.58	54.91	63.20	63.56	0.0018	C-1
LINK_581	262	8	54.91	54.48	63.56	63.80	0.0016	C-1
LINK_582	345	8	54.48	54.07	63.80	64.43	0.0011	C-1
LINK_583	234	8	54.07	53.74	64.43	64.51	0.0014	C-1
LINK_584	262	8	53.74	53.47	64.51	64.82	0.0010	C-1
LINK_585	130	8	47.27	46.77	52.10	52.15	0.0038	C-6
LINK_586	451	8	46.77	45.20	52.15	51.60	0.0034	C-6
LINK_587	80	8	45.20	44.85	51.60	50.83	0.0043	C-6
LINK_588	258	8	46.93	45.83	51.90	51.39	0.0042	C-6





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 13

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_589	310	8	45.83	44.76	51.39	50.80	0.0034	C-6
LINK_590	343	8	44.76	43.82	50.80	50.36	0.0027	C-6
LINK_591	349	8	43.82	42.80	50.36	49.68	0.0029	C-6
LINK_592	268	8	47.25	46.15	52.24	51.68	0.0041	C-6
LINK_593	330	8	46.15	45.08	51.68	51.18	0.0032	C-6
LINK_594	299	8	45.08	44.05	51.18	50.70	0.0034	C-6
LINK_595	374	8	44.05	43.08	50.70	50.12	0.0025	C-6
LINK_596	323	10	43.73	43.08	50.43	50.12	0.0020	C-6
LINK_597	323	10	43.08	42.30	50.12	49.68	0.0024	C-6
LINK_598	229	8	47.38	46.47	52.59	52.07	0.0039	C-6
LINK_599	336	8	46.47	45.56	52.07	51.58	0.0027	C-6
LINK_600	305	8	45.56	44.65	51.58	51.03	0.0029	C-6
LINK_601	347	8	44.65	43.73	51.03	50.43	0.0026	C-6
LINK_602	283	8	48.42	47.41	52.98	52.49	0.0035	C-6
LINK_603	324	8	47.41	46.51	52.49	51.90	0.0027	C-6
LINK_604	346	8	46.51	45.63	51.90	51.45	0.0025	C-6
LINK_605	296	8	45.63	44.70	51.45	50.83	0.0031	C-6
LINK_606	307	8	44.70	43.73	50.83	50.43	0.0031	C-6
LINK_607	169	10	42.30	41.95	49.68	49.60	0.0020	C-6
LINK_608	196	10	41.95	41.83	49.50	52.04	0.0006	C-6
LINK_609	211	8	40.20	39.95	49.80	49.53	0.0011	D-5
LINK_610	320	8	41.44	40.12	49.81	49.46	0.0041	D-5
LINK_611	300	8	42.75	41.44	50.17	49.81	0.0043	D-5
LINK_612	305	8	42.06	41.40	49.86	49.50	0.0021	D-5
LINK_613	316	8	41.40	40.74	49.50	49.15	0.0020	D-5
LINK_614	306	8	40.72	40.12	49.15	49.46	0.0019	D-5
LINK_615	19	8	40.12	39.95	49.46	49.53	0.0089	D-5
LINK_616	93	8	39.95	39.55	49.53	49.70	0.0043	D-5
LINK_617	89	8	39.55	39.15	49.70	49.96	0.0044	D-5
LINK_618	160	8	39.15	35.10	49.96	50.66	0.0253	D-5
LINK_619	134	8	44.50	44.07	48.00	47.94	0.0032	F-3
LINK_620	142	8	44.50	44.07	47.90	47.94	0.0030	F-3
LINK_621	72	8	44.07	43.73	47.94	48.26	0.0047	F-3
LINK_622	337	8	43.73	42.74	48.26	48.23	0.0029	F-3
LINK_623	409	8	42.74	41.94	48.23	48.54	0.0019	F-3
LINK_624	406	8	41.94	40.88	48.54	49.52	0.0026	F-3
LINK_625	357	8	44.19	43.38	48.52	48.89	0.0022	F-3
LINK_626	401	8	43.38	42.70	48.89	49.43	0.0017	F-3
LINK_627	416	8	42.70	41.86	49.43	50.13	0.0020	F-3
LINK_628	437	8	43.30	41.86	50.65	50.13	0.0033	F-3
LINK_629	446	8	41.86	40.88	50.13	49.52	0.0022	F-3
LINK_630	453	8	40.88	39.90	49.52	49.20	0.0021	F-3
LINK_631	263	8	42.92	42.39	48.20	47.87	0.0020	F-3
LINK_632	271	8	43.53	43.00	48.20	47.87	0.0019	F-3
LINK_633	308	8	43.00	42.39	47.87	47.87	0.0019	F-3
LINK_634	296	8	42.39	41.77	47.87	47.60	0.0020	F-3
LINK_635	298	8	41.77	41.10	47.60	48.35	0.0022	F-3
LINK_636	361	8	41.10	40.45	48.35	48.89	0.0018	F-3
LINK_637	216	8	40.45	39.90	48.89	49.20	0.0025	F-3



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE PHYSICAL DATA REPORT  
 FILE RUN: SY\_ERUN1

10/10/94  
 PAGE 14

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_638	375	8	43.31	42.41	47.85	47.85	0.0024	F-3
LINK_639	415	8	42.41	41.55	47.85	48.42	0.0020	F-3
LINK_640	406	8	41.55	39.90	48.42	49.20	0.0040	F-3
LINK_641	221	8	39.90	38.95	49.20	49.72	0.0043	F-3
LINK_642	552	8	38.95	37.79	49.72	50.30	0.0021	F-3
LINK_643	365	8	49.37	48.29	53.63	53.53	0.0029	D-3
LINK_644	597	8	48.29	47.38	53.53	53.50	0.0015	D-3
LINK_645	349	8	47.38	46.62	53.50	53.68	0.0021	D-3
LINK_646	200	8	49.79	49.35	54.10	54.50	0.0022	D-3
LINK_647	225	8	49.35	48.70	54.50	54.10	0.0028	D-3
LINK_648	217	8	48.70	48.62	54.10	53.94	0.0003	D-3
LINK_649	320	8	48.62	48.10	53.94	54.34	0.0016	D-3
LINK_650	191	8	48.10	47.58	54.34	54.27	0.0027	D-3
LINK_651	156	8	47.58	47.18	54.27	54.08	0.0025	D-3
LINK_652	379	8	47.18	46.22	54.08	53.68	0.0025	D-3
LINK_653	365	8	46.22	43.35	53.68	53.24	0.0078	D-3
LINK_654	119	8	55.46	55.10	59.63	59.14	0.0030	C-3
LINK_655	185	8	55.01	54.62	59.14	59.22	0.0021	C-3
LINK_656	180	8	57.17	57.12	61.57	61.30	0.0002	C-3
LINK_657	215	8	57.12	57.08	61.30	61.08	0.0001	C-3
LINK_658	291	8	57.08	56.82	61.08	60.37	0.0008	C-3
LINK_659	482	8	56.64	55.78	61.61	60.36	0.0017	C-3
LINK_660	425	8	55.76	54.85	60.35	59.65	0.0021	C-3
LINK_661	296	8	57.46	56.82	61.55	60.37	0.0021	C-3
LINK_662	190	8	56.82	56.51	60.37	60.90	0.0016	C-3
LINK_663	416	8	56.51	55.55	60.90	59.96	0.0023	C-3
LINK_664	153	8	55.55	55.16	59.96	59.81	0.0025	C-3
LINK_665	187	8	55.16	54.85	59.81	59.65	0.0016	C-3
LINK_666	154	8	54.85	54.62	59.65	59.22	0.0014	C-3
LINK_667	180	8	54.62	54.26	59.22	58.91	0.0020	C-3
LINK_668	335	8	53.83	52.71	59.20	59.16	0.0033	C-3
LINK_669	80	8	54.32	53.83	58.81	59.20	0.0061	C-3
LINK_670	60	8	54.26	54.32	58.91	58.81	-0.0010	C-3
LINK_671	432	8	55.08	54.26	59.65	58.91	0.0019	C-3
LINK_672	472	8	56.01	55.08	60.11	59.65	0.0019	C-3
LINK_673	82	8	55.24	54.73	60.42	60.29	0.0062	C-3
LINK_674	138	8	54.58	54.23	60.18	59.94	0.0025	C-3
LINK_675	128	8	54.64	54.22	59.83	59.48	0.0032	C-3
LINK_676	129	8	54.22	53.97	59.48	59.81	0.0019	C-3
LINK_677	51	8	55.30	53.63	61.78	59.01	0.0327	C-3
LINK_678	51	8	53.33	53.00	62.16	61.78	0.0064	C-3
LINK_679	89	8	53.49	53.33	62.31	62.16	0.0018	C-3
LINK_680	186	8	53.97	53.49	59.81	62.31	0.0025	C-3
LINK_681	103	8	54.23	53.97	59.94	59.81	0.0025	C-3
LINK_682	79	8	54.38	54.23	60.06	59.94	0.0019	C-3
LINK_683	76	8	54.73	54.38	60.29	60.06	0.0046	C-3
LINK_684	220	8	55.20	54.73	60.99	60.29	0.0021	C-3
LINK_685	250	8	55.55	55.20	60.75	60.99	0.0014	C-3
LINK_686	254	8	46.42	45.89	52.48	52.79	0.0020	C-3



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 15

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_687	475	8	48.95	48.07	53.49	53.04	0.0018	C-3
LINK_688	476	8	48.07	46.80	53.04	52.89	0.0026	C-3
LINK_689	84	8	49.23	49.06	54.50	54.23	0.0020	C-3
LINK_690	205	8	48.82	48.14	54.23	53.80	0.0033	C-3
LINK_691	166	8	52.63	51.78	56.66	57.20	0.0051	C-3
LINK_692	353	8	51.78	51.00	57.20	56.39	0.0022	C-3
LINK_693	301	8	51.00	50.26	56.39	55.37	0.0024	C-3
LINK_694	128	8	50.26	50.13	55.37	55.24	0.0010	C-3
LINK_695	342	8	50.13	49.60	55.24	55.06	0.0015	C-3
LINK_696	185	8	49.60	49.25	55.06	54.60	0.0018	C-3
LINK_697	537	8	49.25	48.09	54.60	54.12	0.0021	C-3
LINK_698	77	8	48.09	47.76	54.12	53.80	0.0042	C-3
LINK_699	460	8	47.76	46.54	53.80	53.74	0.0026	C-3
LINK_700	582	8	53.37	52.25	57.86	56.60	0.0019	C-3
LINK_701	374	8	52.25	51.57	56.60	56.11	0.0018	C-3
LINK_702	319	8	51.57	50.93	56.11	55.39	0.0020	C-3
LINK_703	267	8	50.93	50.44	55.39	55.20	0.0018	C-3
LINK_704	172	8	50.44	50.07	55.20	55.33	0.0021	C-3
LINK_705	473	8	50.07	49.41	55.33	55.19	0.0014	C-3
LINK_706	266	8	49.41	48.49	55.19	54.84	0.0034	C-3
LINK_707	316	8	53.59	53.06	58.25	57.71	0.0016	C-3
LINK_708	282	8	53.06	52.77	57.71	57.53	0.0010	C-3
LINK_709	423	8	52.77	51.85	57.53	57.19	0.0021	C-3
LINK_710	329	8	51.85	51.06	57.19	56.30	0.0024	C-3
LINK_711	484	8	51.06	50.02	56.30	55.31	0.0021	C-3
LINK_712	472	8	50.02	48.91	55.31	55.02	0.0023	C-3
LINK_713	297	8	54.94	54.28	58.63	58.08	0.0022	C-3
LINK_714	285	8	54.24	53.48	58.08	57.73	0.0026	C-3
LINK_715	343	8	53.48	52.91	57.73	57.07	0.0016	C-3
LINK_716	362	8	52.91	51.91	57.07	57.13	0.0027	C-3
LINK_717	565	8	51.91	50.53	57.13	55.78	0.0024	C-3
LINK_718	463	8	50.53	49.66	55.78	55.56	0.0018	C-3
LINK_719	324	8	51.50	50.85	57.00	56.03	0.0020	C-3
LINK_720	200	8	50.85	50.00	56.03	56.29	0.0042	C-3
LINK_721	331	8	54.92	54.03	59.83	58.75	0.0026	C-3
LINK_722	353	8	54.03	53.51	58.75	58.81	0.0014	C-3
LINK_723	336	8	53.51	53.02	58.81	58.38	0.0014	C-3
LINK_724	402	8	53.02	52.30	58.38	58.35	0.0017	C-3
LINK_725	328	8	54.35	53.82	59.27	58.51	0.0016	C-3
LINK_726	355	8	53.82	53.05	58.51	58.20	0.0021	C-3
LINK_727	334	8	53.05	52.27	58.20	57.76	0.0023	C-3
LINK_728	410	8	52.27	51.68	57.76	57.96	0.0014	C-3
LINK_729	411	8	50.54	50.33	57.24	56.60	0.0005	C-3
LINK_730	629	8	51.07	49.99	56.05	55.14	0.0017	D-2
LINK_731	388	8	49.99	48.91	55.14	54.85	0.0027	D-2
LINK_732	418	8	48.91	47.80	54.85	54.91	0.0026	D-2
LINK_733	429	8	47.80	46.92	54.91	54.82	0.0020	D-2
LINK_734	451	8	46.92	45.83	54.82	55.00	0.0024	D-2
LINK_735	326	8	45.83	44.82	55.00	54.28	0.0031	D-2





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 16

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_736	506	8	51.05	49.55	55.33	54.88	0.0029	D-2
LINK_737	461	8	49.55	48.46	54.88	54.94	0.0023	D-2
LINK_738	471	8	48.56	47.23	54.94	54.83	0.0028	D-2
LINK_739	492	8	47.23	46.01	54.83	54.77	0.0024	D-2
LINK_740	406	8	46.01	44.96	54.77	54.95	0.0025	D-2
LINK_741	294	8	44.96	44.06	54.95	54.06	0.0030	D-2
LINK_742	527	8	50.34	49.04	54.68	54.25	0.0024	D-2
LINK_743	473	8	49.04	47.89	54.25	54.94	0.0024	D-2
LINK_744	453	8	47.89	46.72	54.94	54.42	0.0025	D-2
LINK_745	432	8	46.72	45.37	54.42	54.22	0.0031	D-2
LINK_746	457	8	45.37	44.14	54.22	53.83	0.0026	D-2
LINK_747	306	8	44.14	42.99	53.83	53.85	0.0037	D-2
LINK_748	188	8	50.27	49.79	54.33	54.67	0.0025	D-2
LINK_749	256	8	49.79	49.29	54.67	54.71	0.0019	D-2
LINK_750	199	8	49.29	48.87	54.71	54.23	0.0021	D-2
LINK_751	369	8	48.87	48.14	54.23	54.34	0.0019	D-2
LINK_752	303	8	48.14	47.84	54.34	54.14	0.0009	D-2
LINK_753	252	8	47.84	47.44	54.14	54.02	0.0015	D-2
LINK_754	287	8	47.44	46.45	54.02	54.13	0.0034	D-2
LINK_755	114	8	46.45	46.30	54.13	54.03	0.0013	D-2
LINK_756	175	8	46.30	45.10	54.03	53.82	0.0068	D-2
LINK_757	206	8	46.10	45.87	53.82	54.27	0.0011	D-2
LINK_758	300	8	45.87	44.83	54.27	53.73	0.0034	D-2
LINK_759	203	8	47.27	46.73	53.93	54.43	0.0026	D-2
LINK_760	324	8	46.73	46.36	54.43	54.12	0.0011	D-2
LINK_761	227	8	46.36	45.79	54.12	53.68	0.0025	D-2
LINK_762	262	8	45.79	45.45	53.68	54.23	0.0013	D-2
LINK_763	276	8	45.45	42.05	54.23	54.48	0.0123	D-2
LINK_764	429	8	46.41	45.45	53.47	53.41	0.0022	D-2
LINK_765	536	8	45.45	44.70	53.41	52.91	0.0014	D-2
LINK_766	323	8	44.70	41.29	52.91	53.25	0.0105	D-2
LINK_767	324	8	55.30	53.11	58.75	58.72	0.0067	D-2
LINK_768	310	8	53.11	52.14	58.72	58.71	0.0031	D-2
LINK_769	654	8	52.14	50.94	58.71	58.29	0.0018	D-2
LINK_770	685	8	57.39	50.03	58.29	50.94	0.0107	D-2
LINK_771	330	8	50.03	48.75	57.39	56.51	0.0038	D-2
LINK_772	324	8	48.75	47.77	56.51	56.43	0.0030	D-2
LINK_773	272	8	53.98	52.42	58.28	57.88	0.0057	D-2
LINK_774	356	8	52.42	51.45	57.88	57.89	0.0027	D-2
LINK_775	656	8	51.45	50.19	57.89	57.28	0.0019	D-2
LINK_776	695	8	50.19	49.21	57.28	56.25	0.0014	D-2
LINK_777	338	8	49.21	48.05	56.25	55.23	0.0034	D-2
LINK_778	309	8	48.05	47.43	55.23	55.61	0.0020	D-2
LINK_779	634	8	52.56	51.36	57.60	57.21	0.0018	D-2
LINK_780	314	8	51.36	50.39	57.21	56.48	0.0030	D-2
LINK_781	352	8	50.39	49.55	56.48	55.50	0.0023	D-2
LINK_782	701	8	49.55	48.27	55.50	55.55	0.0018	D-2
LINK_783	316	8	48.27	47.36	55.55	55.26	0.0028	D-2
LINK_784	321	8	47.36	45.89	55.26	54.84	0.0045	D-2





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 17

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_785	627	8	52.56	50.96	56.78	56.42	0.0025	D-2
LINK_786	319	8	50.96	49.87	56.42	55.44	0.0034	D-2
LINK_787	369	8	49.87	49.04	55.44	55.10	0.0022	D-2
LINK_788	683	8	49.04	48.16	55.10	55.53	0.0012	D-2
LINK_789	336	8	48.16	47.24	55.53	54.76	0.0027	D-2
LINK_790	303	8	47.24	46.37	54.76	54.52	0.0028	D-2
LINK_791	355	8	52.10	50.88	58.62	58.04	0.0034	D-2
LINK_792	577	8	56.65	55.31	60.56	61.11	0.0023	D-2
LINK_793	648	8	55.31	54.35	61.11	60.84	0.0014	D-2
LINK_794	439	8	54.35	53.12	60.84	60.32	0.0028	D-2
LINK_795	552	8	53.12	52.10	60.32	58.62	0.0018	D-2
LINK_796	217	8	55.80	55.08	59.86	59.32	0.0033	D-2
LINK_797	370	8	55.05	54.44	59.32	60.24	0.0016	D-2
LINK_798	660	8	54.44	53.33	60.24	60.08	0.0016	D-2
LINK_799	386	8	53.33	52.02	60.08	59.37	0.0033	D-2
LINK_800	591	8	52.02	51.08	59.37	57.84	0.0015	D-2
LINK_801	370	8	51.08	48.79	57.84	57.27	0.0061	D-2
LINK_802	452	8	54.45	53.14	59.60	59.08	0.0029	D-2
LINK_803	527	8	53.14	51.72	59.08	58.10	0.0026	D-2
LINK_804	611	8	51.72	50.29	58.10	56.92	0.0023	D-2
LINK_805	345	8	50.29	48.79	56.92	56.80	0.0043	D-2
LINK_806	229	8	52.38	51.81	60.03	58.97	0.0024	D-1
LINK_807	225	8	57.82	57.08	61.81	61.46	0.0032	D-1
LINK_808	498	8	55.57	53.93	59.38	59.89	0.0032	D-1
LINK_809	305	8	56.42	55.59	60.80	60.51	0.0027	D-1
LINK_810	292	8	55.59	54.80	60.51	60.14	0.0027	D-1
LINK_811	351	8	55.90	54.78	60.77	60.39	0.0031	D-1
LINK_812	272	8	54.78	53.93	60.39	59.89	0.0031	D-1
LINK_813	237	8	57.11	56.29	61.24	60.90	0.0034	D-1
LINK_814	286	8	56.29	55.52	60.90	60.50	0.0026	D-1
LINK_815	311	8	57.08	56.36	61.46	61.18	0.0023	D-1
LINK_816	295	8	56.36	55.52	61.18	60.50	0.0028	D-1
LINK_817	296	8	55.52	54.80	60.50	60.14	0.0024	D-1
LINK_818	314	8	54.80	53.93	60.14	59.89	0.0027	D-1
LINK_819	192	8	53.93	53.10	59.89	60.11	0.0043	D-1
LINK_820	294	8	57.77	57.08	61.15	61.48	0.0023	D-1
LINK_821	331	8	57.08	56.45	61.48	61.77	0.0019	D-1
LINK_822	271	8	57.67	57.08	61.11	61.41	0.0021	D-1
LINK_823	342	8	57.08	56.45	61.41	61.77	0.0018	D-1
LINK_824	199	8	56.45	56.02	61.77	60.75	0.0021	D-1
LINK_825	127	8	56.66	56.49	62.03	62.03	0.0013	D-1
LINK_826	323	8	56.49	56.22	62.03	61.36	0.0008	D-1
LINK_827	180	8	56.22	55.88	61.36	60.75	0.0018	D-1
LINK_828	158	8	55.88	55.68	60.75	60.95	0.0012	D-1
LINK_829	250	8	55.68	55.03	60.95	61.03	0.0026	D-1
LINK_830	275	8	55.03	54.64	61.03	60.83	0.0014	D-1
LINK_831	514	8	54.64	53.49	60.83	60.24	0.0022	D-1
LINK_832	150	8	53.49	53.10	60.24	60.11	0.0026	D-1
LINK_833	319	8	53.10	52.52	60.11	60.18	0.0018	D-1



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 18

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_834	118	8	52.52	52.38	60.18	60.03	0.0011	D-1
LINK_835	459	8	57.56	56.09	62.41	62.75	0.0032	D-1
LINK_836	264	8	56.09	54.79	62.75	62.95	0.0049	D-1
LINK_837	313	8	54.79	53.51	62.95	62.65	0.0040	D-1
LINK_838	241	8	53.51	52.23	62.65	61.77	0.0053	D-1
LINK_839	445	8	56.97	55.78	61.90	62.29	0.0026	D-1
LINK_840	540	8	55.78	53.71	62.29	62.14	0.0038	D-1
LINK_841	294	8	53.71	52.86	62.14	61.49	0.0028	D-1
LINK_842	434	8	56.67	55.82	61.72	62.10	0.0019	D-1
LINK_843	327	8	55.82	55.01	62.10	62.20	0.0024	D-1
LINK_844	286	8	55.01	54.32	62.20	61.96	0.0024	D-1
LINK_845	232	8	54.32	53.60	61.96	61.34	0.0031	D-1
LINK_846	296	8	53.60	52.86	61.34	61.49	0.0025	D-1
LINK_847	332	8	52.86	52.23	61.49	61.77	0.0019	D-1
LINK_848	701	8	53.51	50.84	61.77	61.20	0.0038	D-1
LINK_849	420	8	50.84	50.03	61.20	61.54	0.0019	D-1
LINK_850	220	8	50.03	49.49	61.54	61.30	0.0024	D-1
LINK_851	131	8	53.62	53.26	61.90	62.00	0.0027	D-1
LINK_852	556	8	54.43	53.62	61.40	61.90	0.0014	D-1
LINK_853	278	8	53.26	52.92	62.00	62.85	0.0012	D-1
LINK_854	219	8	52.92	52.28	62.85	62.75	0.0029	D-1
LINK_855	551	8	53.95	61.60	62.20	61.60	-0.0130	D-1
LINK_856	309	8	53.01	52.28	61.60	62.75	0.0023	D-1
LINK_857	64	8	52.28	52.26	62.75	62.04	0.0003	D-1
LINK_858	72	8	52.26	51.42	62.04	62.77	0.0116	D-1
LINK_859	334	8	50.62	49.75	58.62	54.28	0.0026	E-2
LINK_860	552	8	49.75	44.01	54.28	54.18	0.0104	E-2
LINK_861	284	8	49.53	48.02	55.13	54.25	0.0053	E-2
LINK_862	381	8	48.02	47.38	54.25	53.93	0.0016	E-2
LINK_863	503	8	48.52	47.65	53.83	53.65	0.0017	E-2
LINK_864	49	8	46.58	42.74	53.65	53.71	0.0783	E-2
LINK_865	429	8	47.27	43.64	53.76	53.84	0.0084	E-2
LINK_866	180	8	44.00	43.38	53.75	53.47	0.0034	E-2
LINK_867	190	8	43.38	42.26	53.47	53.73	0.0058	E-2
LINK_868	308	8	50.71	49.81	56.30	55.76	0.0029	E-2
LINK_869	287	8	49.81	49.14	55.76	55.55	0.0023	E-2
LINK_870	117	8	49.14	48.91	55.55	55.30	0.0019	E-2
LINK_871	351	8	48.91	48.03	55.30	55.46	0.0025	E-2
LINK_872	269	8	48.03	45.17	55.46	55.25	0.0106	E-2
LINK_873	528	8	50.12	48.69	55.84	55.14	0.0027	E-2
LINK_874	175	8	48.69	48.37	55.14	54.92	0.0018	E-2
LINK_875	253	8	48.37	47.61	54.92	54.88	0.0030	E-2
LINK_876	360	8	47.61	44.45	54.88	54.64	0.0087	E-2
LINK_877	64	8	50.33	50.20	55.37	55.28	0.0020	E-2
LINK_878	343	8	50.20	47.17	55.28	54.81	0.0088	E-2
LINK_879	182	8	47.17	48.43	54.81	54.47	-0.0060	E-2
LINK_880	267	8	48.43	47.39	54.47	54.84	0.0039	E-2
LINK_881	342	8	47.39	43.98	54.84	54.45	0.0099	E-2
LINK_882	448	8	52.89	51.79	56.64	56.47	0.0024	E-2



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 19

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_883	485	8	51.79	50.79	56.47	56.84	0.0020	E-2
LINK_884	237	8	52.88	52.50	57.32	57.28	0.0016	E-2
LINK_885	274	8	52.50	51.39	57.28	56.80	0.0040	E-2
LINK_886	199	8	51.39	50.79	56.80	56.84	0.0030	E-2
LINK_887	299	8	50.79	50.02	56.84	56.23	0.0025	E-2
LINK_888	344	8	50.79	49.09	56.23	55.84	0.0049	E-2
LINK_889	266	8	50.79	49.84	56.75	56.32	0.0035	E-2
LINK_890	441	8	49.84	49.09	56.32	55.83	0.0017	E-2
LINK_891	70	8	49.09	48.85	55.84	55.83	0.0034	E-2
LINK_892	324	8	48.85	48.25	55.83	56.35	0.0018	E-2
LINK_893	286	8	48.25	47.71	56.35	56.16	0.0018	E-2
LINK_894	333	8	45.00	44.35	53.00	53.15	0.0019	F-1
LINK_895	179	8	46.40	45.67	51.15	51.49	0.0040	F-1
LINK_896	254	8	45.67	44.48	51.49	51.50	0.0046	F-1
LINK_897	468	8	44.45	42.36	51.50	51.03	0.0044	F-1
LINK_898	325	8	48.53	45.87	53.17	52.30	0.0081	F-1
LINK_899	286	8	45.87	44.19	52.30	51.43	0.0058	F-1
LINK_900	407	6	44.00	43.35	53.00	52.75	0.0016	F-1
LINK_901	450	8	46.20	45.28	51.56	52.03	0.0020	F-1
LINK_902	446	8	45.28	44.65	52.03	52.74	0.0014	F-1
LINK_903	574	8	44.65	43.35	52.74	52.75	0.0022	F-1
LINK_904	208	6	44.80	44.00	53.00	53.00	0.0038	F-1
LINK_905	332	8	47.86	46.90	51.93	51.56	0.0028	F-1
LINK_906	493	8	46.90	46.08	51.56	52.66	0.0016	F-1
LINK_907	456	8	46.08	45.24	52.66	52.70	0.0018	F-1
LINK_908	477	8	45.24	44.01	52.70	53.19	0.0025	F-1
LINK_909	346	8	48.53	44.55	52.97	53.19	0.0115	F-1
LINK_910	193	8	44.01	43.99	53.19	53.15	0.0001	F-1
LINK_911	201	8	43.99	43.35	53.15	52.00	0.0031	F-1
LINK_912	369	8	43.35	42.56	52.75	51.43	0.0021	F-1
LINK_913	189	8	42.56	42.36	51.43	51.03	0.0010	F-1
LINK_914	159	8	42.36	41.88	51.03	50.90	0.0030	F-1
LINK_915	126	8	46.48	46.20	51.54	51.56	0.0022	F-1
LINK_916	184	8	47.76	47.35	52.44	51.86	0.0022	F-1
LINK_917	482	8	47.35	46.37	51.86	52.33	0.0020	F-1
LINK_918	467	8	46.37	45.45	52.33	52.90	0.0019	F-1
LINK_919	564	8	45.45	44.63	52.90	53.39	0.0014	F-1
LINK_920	221	8	48.00	47.38	53.50	53.39	0.0028	F-1
LINK_921	351	8	48.07	47.32	52.60	52.95	0.0021	F-1
LINK_922	533	8	47.32	46.31	52.95	53.47	0.0018	F-1
LINK_923	623	8	46.31	45.14	53.47	53.78	0.0018	F-1
LINK_924	327	8	48.48	47.51	54.85	54.71	0.0029	F-1
LINK_925	298	8	47.51	46.44	54.71	54.52	0.0035	F-1
LINK_926	383	8	49.20	48.83	54.26	54.15	0.0009	F-1
LINK_927	675	8	48.83	48.31	54.15	54.41	0.0007	F-1
LINK_928	448	8	48.31	47.94	54.41	53.59	0.0008	F-1
LINK_929	459	8	47.94	47.38	53.59	53.46	0.0012	F-1
LINK_930	316	8	48.61	47.68	53.29	53.50	0.0029	F-1
LINK_931	315	8	47.68	47.38	53.50	53.46	0.0009	F-1





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 20

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_932	211	8	47.38	46.81	53.46	54.31	0.0027	F-1
LINK_933	227	8	46.81	46.44	54.31	54.52	0.0016	F-1
LINK_934	360	8	46.44	45.88	54.52	54.28	0.0015	F-1
LINK_935	376	8	45.88	45.14	54.28	53.78	0.0019	F-1
LINK_936	366	8	45.14	44.63	53.78	53.39	0.0013	F-1
LINK_937	376	8	44.63	44.01	53.39	53.19	0.0016	F-1
LINK_938	538	8	50.00	46.71	57.00	57.21	0.0061	E-2
LINK_939	573	8	51.86	47.41	56.76	57.94	0.0077	E-2
LINK_940	206	8	45.00	44.40	55.50	55.40	0.0029	G-1
LINK_941	227	15	44.40	44.14	55.40	56.44	0.0011	G-1
LINK_942	227	8	46.19	40.11	53.79	53.44	0.0267	G-1
LINK_943	406	8	48.77	47.87	53.56	53.32	0.0022	G-1
LINK_944	305	8	47.87	47.07	53.32	52.95	0.0026	G-1
LINK_945	330	8	47.07	46.23	52.95	52.80	0.0025	G-1
LINK_946	243	8	46.23	39.33	52.80	52.39	0.0284	G-1
LINK_947	345	8	47.66	46.60	52.92	52.27	0.0030	G-1
LINK_948	306	8	46.60	37.98	52.27	51.98	0.0281	G-1
LINK_949	262	8	45.00	44.04	51.16	50.80	0.0036	G-1
LINK_950	154	8	44.04	43.21	50.80	50.68	0.0053	G-1
LINK_951	409	8	43.55	42.86	55.68	54.02	0.0016	G-1
LINK_952	182	8	48.00	47.62	55.50	55.42	0.0020	G-1
LINK_953	451	8	47.62	46.35	55.42	55.76	0.0028	G-1
LINK_954	472	8	46.35	44.96	55.76	54.76	0.0029	G-1
LINK_955	443	8	44.96	43.43	54.76	54.89	0.0034	G-1
LINK_956	222	8	43.43	42.72	54.89	54.02	0.0032	G-1
LINK_957	313	8	42.72	42.21	54.02	54.90	0.0016	G-1
LINK_958	344	8	42.21	40.93	54.90	53.80	0.0037	G-1
LINK_959	250	8	48.68	45.72	53.32	53.39	0.0118	G-1
LINK_960	267	8	48.95	45.72	53.81	53.39	0.0121	G-1
LINK_961	69	8	45.72	46.18	53.39	53.15	-0.0060	G-1
LINK_962	357	8	47.78	47.04	54.30	53.74	0.0020	G-1
LINK_963	354	8	47.04	46.26	53.74	53.48	0.0022	G-1
LINK_964	257	8	46.26	46.18	53.48	53.15	0.0003	G-1
LINK_965	318	8	46.18	39.33	53.15	52.68	0.0215	G-1
LINK_966	398	10	39.67	38.26	49.61	49.78	0.0035	G-1
LINK_967	453	10	41.22	39.67	49.73	49.61	0.0034	G-1
LINK_968	436	10	38.26	36.67	49.78	49.70	0.0036	G-1
LINK_969	473	10	36.67	34.78	49.70	49.50	0.0040	G-1
LINK_970	445	8	41.29	40.58	50.50	50.39	0.0016	G-1
LINK_971	578	8	40.58	36.19	50.39	50.04	0.0076	G-1
LINK_972	376	8	49.33	48.30	53.77	53.58	0.0027	G-1
LINK_973	416	8	48.30	47.48	53.58	53.70	0.0019	G-1
LINK_974	379	8	47.48	46.14	53.70	52.69	0.0035	G-1
LINK_975	293	8	46.14	45.29	52.69	53.34	0.0029	G-1
LINK_976	469	8	45.29	40.11	53.34	53.44	0.0110	G-1
LINK_977	415	8	47.28	46.38	51.98	51.94	0.0021	G-1
LINK_978	458	8	46.38	45.33	51.94	52.33	0.0022	G-1
LINK_979	469	8	45.33	44.19	52.33	52.64	0.0024	G-1
LINK_980	590	8	44.19	38.76	52.64	52.39	0.0092	G-1





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 21

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_981	192	8	47.45	46.63	52.73	52.34	0.0042	G-1
LINK_982	312	8	46.63	45.92	52.34	51.44	0.0022	G-1
LINK_983	394	8	45.92	44.32	51.44	51.98	0.0040	G-1
LINK_984	466	8	44.32	43.66	51.98	51.84	0.0014	G-1
LINK_985	576	8	43.66	37.98	51.84	51.98	0.0098	G-1
LINK_986	483	8	47.23	45.69	52.15	51.06	0.0031	G-1
LINK_987	403	8	45.69	44.62	51.06	51.31	0.0026	G-1
LINK_988	467	8	44.62	43.44	51.31	51.08	0.0025	G-1
LINK_989	586	8	43.44	37.16	51.08	51.63	0.0107	G-1
LINK_990	487	8	46.48	45.11	51.51	50.74	0.0028	G-1
LINK_991	407	8	45.11	44.05	50.74	50.70	0.0026	G-1
LINK_992	449	8	44.05	42.99	50.70	50.80	0.0023	G-1
LINK_993	592	8	42.99	36.75	50.80	51.34	0.0105	G-1
LINK_994	334	8	44.69	44.41	50.15	50.42	0.0008	G-1
LINK_995	398	8	44.41	43.35	50.42	49.49	0.0026	G-1
LINK_996	472	8	43.36	42.22	49.49	50.78	0.0024	G-1
LINK_997	582	8	42.22	41.05	50.78	50.83	0.0020	G-1
LINK_998	536	8	46.07	44.84	51.85	50.73	0.0022	1ST ST.
LINK_999	271	8	49.06	46.83	52.55	52.83	0.0082	G-1
LINK_1000	252	8	49.24	46.83	53.34	52.83	0.0095	G-1
LINK_1001	66	8	46.83	45.04	52.83	52.72	0.0271	G-1
LINK_1002	332	8	48.50	47.97	54.30	54.50	0.0016	G-1
LINK_1003	366	8	47.97	47.38	54.50	54.70	0.0016	G-1
LINK_1004	506	8	47.38	46.57	54.70	52.70	0.0016	G-1
LINK_1005	110	8	46.57	45.33	52.70	52.52	0.0112	G-1
LINK_1006	304	8	45.33	45.37	52.52	52.72	0.0000	G-1
LINK_1007	318	8	45.04	39.58	52.72	52.68	0.0171	G-1
LINK_1008	194	8	34.02	33.63	51.50	51.48	0.0020	2ND ST.
LINK_1009	372	8	47.82	46.79	50.92	50.07	0.0027	FAIRFIELD DR.
LINK_1010	465	8	46.79	45.95	50.07	49.72	0.0018	FAIRFIELD DR.
LINK_1011	257	8	48.45	44.46	52.60	51.99	0.0155	D-4
LINK_1012	315	8	48.77	46.37	53.67	53.41	0.0076	D-4
LINK_1013	314	8	46.37	45.37	53.41	53.54	0.0031	D-4
LINK_1014	391	8	45.87	44.88	53.54	53.27	0.0025	D-4
LINK_1015	276	8	44.88	44.24	53.27	51.99	0.0023	D-4
LINK_1016	329	8	44.24	43.29	51.99	52.70	0.0028	D-4
LINK_1017	325	8	43.29	41.74	52.70	52.43	0.0047	D-4
LINK_1018	619	8	41.74	39.75	52.43	54.12	0.0032	D-4
LINK_1019	281	8	48.37	47.17	52.72	53.22	0.0042	D-4
LINK_1020	354	8	47.17	45.86	53.22	53.19	0.0037	D-4
LINK_1021	668	8	45.86	44.46	53.19	52.74	0.0021	D-4
LINK_1022	387	8	44.46	42.01	52.74	52.68	0.0063	D-4
LINK_1023	266	8	42.01	41.61	52.68	52.42	0.0015	D-4
LINK_1024	499	8	41.61	40.04	52.42	54.89	0.0031	D-4
LINK_1025	363	8	44.42	43.81	50.63	51.03	0.0016	C-4
LINK_1026	455	8	43.81	43.28	51.03	51.26	0.0011	C-4
LINK_1027	338	8	47.02	45.80	52.38	51.91	0.0036	C-4
LINK_1028	321	8	45.80	44.60	51.91	51.61	0.0037	C-4
LINK_1029	288	8	44.60	43.69	51.61	51.54	0.0031	C-4



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 22

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1030	237	8	43.69	43.28	51.54	51.26	0.0017	C-4
LINK_1031	168	8	43.28	42.87	51.26	51.51	0.0024	C-4
LINK_1032	330	8	42.87	42.06	51.51	50.99	0.0024	C-4
LINK_1033	313	8	42.06	40.13	50.99	50.83	0.0061	C-4
LINK_1034	299	8	47.48	45.79	51.81	51.46	0.0056	C-4
LINK_1035	442	8	49.91	48.44	54.82	53.71	0.0033	C-4
LINK_1036	379	8	48.44	47.44	54.36	54.06	0.0026	C-4
LINK_1037	339	8	47.44	46.69	54.06	53.44	0.0022	C-4
LINK_1038	170	8	46.69	46.20	53.44	53.47	0.0028	C-4
LINK_1039	609	8	46.20	45.29	53.47	52.95	0.0014	C-4
LINK_1040	358	8	46.04	45.10	52.95	52.72	0.0026	C-4
LINK_1041	320	8	44.53	43.50	52.72	51.72	0.0032	C-4
LINK_1042	421	8	49.91	48.87	54.18	53.71	0.0024	C-4
LINK_1043	418	8	48.87	47.99	53.71	53.80	0.0021	C-4
LINK_1044	315	8	47.99	47.39	53.80	53.15	0.0019	C-4
LINK_1045	222	8	47.39	46.65	53.15	53.37	0.0033	C-4
LINK_1046	607	8	46.65	45.99	53.37	52.62	0.0010	C-4
LINK_1047	371	8	45.99	45.20	52.62	52.00	0.0021	C-4
LINK_1048	312	8	45.20	44.21	52.00	54.27	0.0031	C-4
LINK_1049	381	8	44.21	43.50	54.27	51.72	0.0018	C-4
LINK_1050	337	12	43.62	42.98	52.05	51.72	0.0019	C-4
LINK_1051	220	6	49.83	49.33	53.13	53.24	0.0022	C-4
LINK_1052	425	6	49.33	48.05	53.24	52.80	0.0030	C-4
LINK_1053	415	6	52.20	50.70	56.25	54.50	0.0036	C-4
LINK_1054	400	6	50.70	48.80	54.50	53.50	0.0047	C-4
LINK_1055	346	6	48.80	48.05	53.50	52.80	0.0021	C-4
LINK_1056	80	6	48.05	47.73	52.80	53.44	0.0040	C-4
LINK_1057	103	6	47.73	47.31	53.44	53.64	0.0040	C-4
LINK_1058	553	6	48.96	48.08	55.80	53.80	0.0015	C-4
LINK_1059	480	6	48.08	47.31	53.80	53.64	0.0016	C-4
LINK_1060	508	8	47.31	46.34	53.64	53.40	0.0019	C-4
LINK_1061	395	8	46.34	45.40	53.40	53.09	0.0023	C-4
LINK_1062	369	8	45.40	44.52	53.09	52.57	0.0023	C-4
LINK_1063	470	8	46.89	45.75	53.04	52.80	0.0024	C-4
LINK_1064	249	8	45.75	45.39	52.80	52.43	0.0014	C-4
LINK_1065	204	8	45.39	45.18	52.43	52.10	0.0010	C-4
LINK_1066	88	8	45.18	45.05	52.10	52.37	0.0014	C-4
LINK_1067	100	8	45.05	44.52	52.37	52.57	0.0053	C-4
LINK_1068	322	10	44.52	43.62	52.57	52.05	0.0028	C-4
LINK_1069	336	8	45.10	44.50	52.73	52.05	0.0017	C-4
LINK_1070	334	8	46.04	45.10	53.13	52.73	0.0028	C-4
LINK_1071	612	8	47.07	46.04	53.57	53.13	0.0016	C-4
LINK_1072	167	8	47.64	47.07	53.41	53.57	0.0034	C-4
LINK_1073	409	8	48.31	47.64	54.06	53.41	0.0016	C-4
LINK_1074	406	8	49.18	48.31	54.56	54.06	0.0021	C-4
LINK_1075	420	8	50.03	49.18	55.50	54.56	0.0020	C-4
LINK_1076	277	8	50.18	49.62	54.76	54.40	0.0020	C-4
LINK_1077	287	8	49.00	48.80	54.25	54.20	0.0007	C-4
LINK_1078	413	8	47.92	46.89	53.92	53.59	0.0024	C-4





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 23

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1079	179	8	47.90	47.92	53.92	53.92	0.0000	C-4
LINK_1080	250	8	48.60	47.90	54.15	53.92	0.0028	C-4
LINK_1081	185	8	48.80	48.60	54.20	54.15	0.0010	C-4
LINK_1082	307	8	49.62	48.80	54.40	54.20	0.0026	C-4
LINK_1083	224	8	50.25	49.62	55.16	54.40	0.0028	C-4
LINK_1084	334	8	51.03	50.25	56.34	55.16	0.0023	C-4
LINK_1085	278	8	51.77	51.03	56.59	56.34	0.0026	C-4
LINK_1086	199	8	52.22	51.77	56.59	56.49	0.0022	C-4
LINK_1087	201	8	58.45	58.15	64.72	64.83	0.0014	WAKE AVE. - E
LINK_1088	64	8	58.45	58.15	65.00	64.83	0.0046	WAKE AVE. - E
LINK_1089	485	8	58.15	57.28	64.83	65.20	0.0017	4TH STREET TR
LINK_1090	534	8	57.28	56.47	65.20	64.09	0.0015	4TH STREET TR
LINK_1091	224	8	56.47	56.02	64.09	64.00	0.0020	4TH STREET TR
LINK_1092	262	8	56.02	55.68	64.00	64.00	0.0013	4TH STREET TR
LINK_1093	90	8	55.68	54.47	64.00	59.42	0.0134	4TH STREET TR
LINK_1094	125	8	54.47	54.21	59.42	59.11	0.0020	4TH STREET TR
LINK_1095	314	8	55.81	54.94	61.55	60.85	0.0027	D-1
LINK_1096	261	8	54.94	53.94	60.85	60.14	0.0038	D-1
LINK_1097	375	8	56.71	55.70	61.89	61.12	0.0026	D-1
LINK_1098	259	8	55.70	54.74	61.12	60.42	0.0037	D-1
LINK_1099	259	8	54.74	53.94	60.42	60.14	0.0030	D-1
LINK_1100	277	8	53.94	53.09	60.14	60.09	0.0030	D-1
LINK_1101	167	8	58.24	56.34	63.23	61.40	0.0113	D-1
LINK_1102	453	8	56.34	54.21	61.40	59.11	0.0047	D-1
LINK_1103	208	8	57.10	55.33	62.98	61.36	0.0085	D-1
LINK_1104	401	8	55.33	53.92	61.36	59.91	0.0035	D-1
LINK_1105	213	8	54.82	53.92	60.57	59.91	0.0042	D-1
LINK_1106	378	8	55.83	54.82	61.48	60.57	0.0026	D-1
LINK_1107	352	8	56.93	55.83	62.16	61.48	0.0031	D-1
LINK_1108	327	8	57.99	56.93	62.85	62.16	0.0032	D-1
LINK_1109	271	8	57.99	57.11	62.85	62.61	0.0032	D-1
LINK_1110	259	8	58.85	57.99	63.08	62.85	0.0033	D-1
LINK_1111	361	8	58.85	57.69	63.08	62.24	0.0032	D-1
LINK_1112	312	8	57.69	56.63	62.24	61.77	0.0034	D-1
LINK_1113	349	8	56.93	55.42	61.77	60.82	0.0043	D-1
LINK_1114	217	8	55.42	54.21	60.82	59.11	0.0055	D-1
LINK_1115	272	12	54.21	53.83	59.11	59.91	0.0014	4TH STREET TR
LINK_1116	287	12	53.83	53.09	59.91	60.09	0.0025	4TH STREET TR
LINK_1117	296	12	52.48	51.42	61.33	62.77	0.0035	4TH STREET TR
LINK_1118	339	12	53.09	52.48	60.09	61.33	0.0018	4TH STREET TR
LINK_1119	230	8	54.00	53.09	60.50	60.09	0.0039	D-1
LINK_1120	359	8	55.10	54.00	61.34	60.50	0.0030	D-1
LINK_1121	268	8	56.07	55.10	61.87	61.34	0.0036	D-1
LINK_1122	385	8	56.91	56.07	62.61	61.87	0.0021	D-1
LINK_1123	302	8	59.47	58.88	64.21	63.90	0.0019	D-1
LINK_1124	278	8	58.88	58.32	63.90	63.48	0.0020	D-1
LINK_1125	305	8	58.32	57.69	63.48	63.05	0.0020	D-1
LINK_1126	277	8	57.69	57.11	63.05	62.61	0.0020	D-1
LINK_1127	42	8	57.11	56.91	62.61	62.61	0.0047	D-1



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 24

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1128	36	8	57.11	56.91	62.61	62.61	0.0055	D-1
LINK_1129	286	8	57.69	57.11	63.20	62.61	0.0020	D-1
LINK_1130	537	8	58.68	57.69	63.72	63.20	0.0018	D-1
LINK_1131	261	8	59.20	58.68	64.20	63.72	0.0019	D-1
LINK_1132	503	8	59.69	58.81	64.20	64.30	0.0017	8TH STREET TR
LINK_1133	164	8	58.81	58.45	64.30	64.30	0.0022	8TH STREET TR
LINK_1134	95	8	58.45	58.04	64.30	67.95	0.0043	C-1
LINK_1135	665	14	42.77	41.88	51.72	52.96	0.0013	C-4
LINK_1136	438	14	41.88	40.99	52.96	52.44	0.0020	C-4
LINK_1137	545	14	40.99	40.31	52.44	52.64	0.0012	C-4
LINK_1138	335	14	40.31	39.59	52.64	51.46	0.0021	C-4
LINK_1139	162	14	39.59	39.10	51.46	50.83	0.0030	C-4
LINK_1140	302	14	39.10	39.05	50.83	51.51	0.0001	C-4
LINK_1141	248	14	38.87	38.37	51.51	51.27	0.0020	C-4
LINK_1142	40	8	42.19	41.88	50.86	50.90	0.0077	3RD ST. NOR
LINK_1143	33	8	46.24	46.12	58.00	58.00	0.0036	ROSS AVE EAST
LINK_1144	424	8	44.40	43.73	50.38	51.48	0.0015	F-2
LINK_1145	219	8	43.73	42.98	51.48	51.53	0.0034	F-2
LINK_1146	334	8	42.98	42.38	51.53	50.58	0.0018	F-2
LINK_1147	144	8	42.38	42.19	50.58	50.86	0.0013	F-2
LINK_1148	329	8	52.55	51.89	57.40	57.80	0.0020	E-1
LINK_1149	340	8	51.89	51.23	57.80	58.20	0.0019	E-1
LINK_1150	170	8	52.49	51.54	56.60	56.90	0.0055	E-1
LINK_1151	377	12	51.54	51.14	56.90	57.50	0.0010	E-1
LINK_1152	362	12	51.14	50.74	57.50	57.96	0.0011	E-1
LINK_1153	323	8	52.54	50.74	59.61	57.96	0.0055	E-1
LINK_1154	378	8	54.24	52.54	61.15	59.61	0.0045	E-1
LINK_1155	408	8	52.51	51.87	57.47	57.00	0.0015	E-1
LINK_1156	417	8	51.50	50.22	57.00	57.00	0.0030	E-1
LINK_1157	178	12	46.60	46.24	58.50	58.00	0.0020	E-1
LINK_1158	606	12	47.80	46.60	56.30	58.50	0.0019	E-1
LINK_1159	256	12	48.80	47.80	56.60	56.00	0.0039	E-1
LINK_1160	242	12	49.32	48.80	57.00	56.60	0.0021	E-1
LINK_1161	270	12	49.85	49.32	58.00	57.00	0.0019	E-1
LINK_1162	279	12	50.41	49.85	57.96	58.00	0.0020	E-1
LINK_1163	240	8	51.23	50.41	58.20	57.96	0.0034	E-1
LINK_1164	354	8	52.26	51.50	56.94	57.50	0.0021	E-1
LINK_1165	474	8	51.50	50.88	57.50	58.00	0.0013	E-1
LINK_1166	351	12	44.47	43.90	55.10	55.00	0.0016	G-1
LINK_1167	417	12	43.90	43.23	55.00	54.00	0.0016	G-1
LINK_1168	467	12	43.23	42.49	54.00	53.45	0.0015	G-1
LINK_1169	344	12	49.27	48.54	58.20	56.60	0.0021	G-1
LINK_1170	365	12	48.54	47.98	56.60	56.30	0.0015	G-1
LINK_1171	232	8	51.46	50.99	58.02	57.58	0.0020	G-1
LINK_1172	393	8	50.99	50.25	57.58	56.47	0.0018	G-1
LINK_1173	305	8	49.65	49.01	55.70	55.17	0.0021	G-1
LINK_1174	302	8	50.25	49.65	56.47	55.70	0.0019	G-1
LINK_1175	330	8	56.01	54.20	65.55	65.28	0.0054	B-1
LINK_1176	330	8	49.75	49.03	55.50	56.27	0.0021	G-1





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 25

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1177	386	8	49.03	48.31	56.27	56.30	0.0018	G-1
LINK_1178	646	12	47.98	46.57	56.30	56.82	0.0021	G-1
LINK_1179	183	12	41.55	41.10	54.21	53.90	0.0024	EASTSIDE TRUN
LINK_1180	245	12	42.49	41.55	53.45	54.21	0.0038	EASTSIDE TRUN
LINK_1181	433	12	43.87	42.49	54.00	53.45	0.0031	EASTSIDE TRUN
LINK_1182	894	12	46.57	43.87	46.82	54.00	0.0030	EASTSIDE TRUN
LINK_1183	323	12	47.38	46.70	56.40	56.80	0.0021	EASTSIDE TRUN
LINK_1184	257	12	48.11	47.48	56.40	56.40	0.0024	EASTSIDE TRUN
LINK_1185	318	12	48.94	48.21	56.60	56.40	0.0023	EASTSIDE TRUN
LINK_1186	311	12	49.64	49.04	56.60	56.60	0.0019	EASTSIDE TRUN
LINK_1187	314	12	50.38	49.74	56.80	56.60	0.0020	EASTSIDE TRUN
LINK_1188	267	12	52.14	50.48	57.30	56.80	0.0062	EASTSIDE TRUN
LINK_1189	354	8	56.50	52.50	64.00	63.90	0.0113	IMPERIAL AVE
LINK_1190	262	8	58.14	57.43	63.42	63.72	0.0027	EE-1
LINK_1191	323	8	57.43	56.74	63.72	64.09	0.0021	EE-1
LINK_1192	383	12	56.74	55.86	64.09	64.45	0.0023	EE-1
LINK_1193	382	12	55.86	54.94	64.45	64.82	0.0024	EE-1
LINK_1194	346	12	54.94	53.99	64.82	65.16	0.0027	EE-1
LINK_1195	86	8	53.99	53.60	65.16	65.16	0.0045	EE-1
LINK_1196	380	12	48.67	48.40	59.34	60.19	0.0007	HOLT AVE. CRO
LINK_1197	316	12	49.10	48.67	58.90	59.34	0.0013	HOLT AVE. CRO
LINK_1198	341	12	49.56	49.10	58.45	58.90	0.0013	HOLT AVE. CRO
LINK_1199	336	12	49.98	49.56	57.73	58.45	0.0012	HOLT AVE. CRO
LINK_1200	347	12	50.29	49.98	57.34	57.73	0.0008	HOLT AVE. CRO
LINK_1201	345	12	50.76	50.29	57.33	57.34	0.0013	HOLT AVE. CRO
LINK_1202	379	12	51.21	50.76	57.03	57.33	0.0011	HOLT AVE. CRO
LINK_1203	389	6	67.35	66.56	70.00	70.00	0.0020	8TH STREET TR
LINK_1204	555	6	66.57	65.46	70.00	69.00	0.0020	8TH STREET TR
LINK_1205	637	6	65.46	64.18	69.00	68.00	0.0020	8TH STREET TR
LINK_1206	589	6	64.18	63.01	68.00	68.00	0.0019	8TH STREET TR
LINK_1207	523	6	63.01	61.96	68.00	68.00	0.0020	8TH STREET TR
LINK_1208	149	8	61.99	61.66	68.00	68.00	0.0022	8TH STREET TR
LINK_1209	333	8	61.66	60.99	68.00	68.00	0.0020	8TH STREET TR
LINK_1210	411	8	60.99	60.17	68.00	68.00	0.0020	8TH STREET TR
LINK_1211	311	8	60.17	59.55	68.00	68.00	0.0019	8TH STREET TR
LINK_1212	338	8	59.55	58.87	68.00	68.00	0.0020	8TH STREET TR
LINK_1213	415	8	58.87	58.04	68.00	68.00	0.0020	8TH STREET TR
LINK_1214	171	6	58.04	57.70	67.95	63.50	0.0019	8TH STREET TR
LINK_1215	520	6	57.70	57.43	63.50	62.30	0.0005	8TH STREET TR
LINK_1216	523	6	57.43	56.55	62.30	62.87	0.0016	8TH STREET TR
LINK_1217	447	6	56.55	55.59	62.87	61.39	0.0021	8TH STREET TR
LINK_1218	222	6	55.59	55.48	61.39	61.23	0.0005	8TH STREET TR
LINK_1219	599	8	55.48	54.58	61.23	60.03	0.0015	8TH STREET TR
LINK_1220	387	8	54.58	54.04	60.03	59.56	0.0014	8TH STREET TR
LINK_1221	316	8	54.04	53.64	59.56	58.96	0.0012	8TH STREET TR
LINK_1222	225	8	53.64	52.63	58.96	59.01	0.0044	8TH STREET TR
LINK_1223	422	8	45.95	45.24	49.72	50.02	0.0016	COMMERCIAL AV
LINK_1224	449	8	45.24	44.84	50.02	50.73	0.0008	COMMERCIAL AV
LINK_1225	202	8	44.84	44.29	50.73	50.80	0.0027	COMMERCIAL AV



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 26

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1226	361	8	44.29	43.48	50.80	50.57	0.0022	COMMERCIAL AV
LINK_1227	377	8	43.20	43.06	51.57	51.23	0.0003	COMMERCIAL AV
LINK_1228	492	8	43.06	42.19	51.23	50.86	0.0017	COMMERCIAL AV
LINK_1229	230	10	42.19	41.70	50.86	51.61	0.0021	COMMERCIAL AV
LINK_1230	434	10	41.70	41.32	51.61	54.14	0.0008	COMMERCIAL AV
LINK_1231	471	10	41.32	40.65	54.14	53.29	0.0014	COMMERCIAL AV
LINK_1232	56	15	41.71	41.70	53.49	53.73	0.0001	4TH STREET TR
LINK_1233	156	15	41.86	41.71	53.84	53.49	0.0009	4TH STREET TR
LINK_1234	198	15	42.09	41.86	53.47	53.84	0.0011	4TH STREET TR
LINK_1235	154	15	42.27	42.09	53.71	53.47	0.0011	4TH STREET TR
LINK_1236	199	15	42.71	42.27	53.83	53.71	0.0022	4TH STREET TR
LINK_1237	188	15	42.93	42.71	53.93	53.83	0.0011	4TH STREET TR
LINK_1238	167	15	43.10	42.93	53.93	54.04	0.0010	4TH STREET TR
LINK_1239	206	15	43.43	43.10	54.18	54.04	0.0016	4TH STREET TR
LINK_1240	195	15	43.66	43.43	54.45	54.18	0.0011	4TH STREET TR
LINK_1241	365	15	44.09	43.66	54.64	54.45	0.0011	4TH STREET TR
LINK_1242	354	15	44.49	44.09	55.25	54.64	0.0011	4TH STREET TR
LINK_1243	358	15	45.04	44.49	56.06	55.25	0.0015	4TH STREET TR
LINK_1244	361	15	45.46	45.04	56.70	56.16	0.0011	4TH STREET TR
LINK_1245	222	15	45.98	45.46	57.10	56.70	0.0023	4TH STREET TR
LINK_1246	144	15	46.41	45.99	57.21	57.10	0.0029	4TH STREET TR
LINK_1247	242	15	46.41	46.27	57.72	57.21	0.0005	4TH STREET TR
LINK_1248	107	15	46.55	46.41	57.94	57.72	0.0013	4TH STREET TR
LINK_1249	289	15	46.93	46.55	58.57	57.94	0.0013	4TH STREET TR
LINK_1250	104	15	47.15	46.93	58.75	58.57	0.0021	4TH ST. EAST
LINK_1251	4831	24	43.67	48.00	51.50	49.00	0.0000	
LINK_1252	0	**	0.00	20.00	51.50	51.50	0.0000	
LINK_1253	135	8	54.05	53.79	58.60	58.30	0.0019	E-1
LINK_1254	410	8	53.79	52.98	58.30	57.60	0.0019	E-1
LINK_1255	300	8	54.47	53.88	59.10	58.70	0.0019	E-1
LINK_1256	305	8	53.88	53.28	58.70	58.30	0.0019	E-1
LINK_1257	255	8	55.07	54.66	59.60	60.10	0.0016	E-1
LINK_1258	120	8	54.74	54.58	59.40	59.60	0.0013	E-1
LINK_1259	315	8	54.58	54.13	59.60	59.10	0.0014	E-1
LINK_1260	269	8	54.13	53.67	59.10	58.70	0.0017	E-1
LINK_1261	224	12	41.10	40.93	53.90	53.80	0.0007	EASTSIDE TRU
LINK_1262	49	12	49.01	44.47	55.17	55.10	0.0926	G-1
LINK_1263	138	27	30.10	29.81	51.50	51.50	0.0021	MAIN ST. TRUN
LINK_1264	45	8	47.01	47.15	58.42	58.75	-0.0030	4TH AVE. CROS
LINK_1265	45	8	51.81	47.28	58.97	58.57	0.1006	4TH AVE. CROS
LINK_1266	0	0	0.00	42.19	50.86	50.86	0.0000	
LINK_1267	43	8	42.99	42.60	53.85	53.47	0.0090	4TH AVE. CROS
LINK_1268	43	8	44.06	42.71	54.06	53.83	0.0314	4TH AVE. CROS
LINK_1269	44	8	44.12	43.27	54.02	53.93	0.0193	4TH AVE. CROS
LINK_1270	43	8	44.82	43.44	54.28	54.04	0.0320	4TH AVE. CROS
LINK_1271	43	8	48.28	43.43	54.52	54.18	0.1127	4TH AVE. CROS
LINK_1272	59	8	46.22	44.41	54.52	54.45	0.0306	4TH AVE. CROS
LINK_1273	62	8	46.52	44.65	54.82	54.64	0.0301	4TH AVE. CROS
LINK_1274	62	8	47.04	45.17	55.51	55.25	0.0301	4TH AVE. CROS





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 27

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1275	55	8	47.68	45.44	56.46	56.16	0.0407	4TH AVE. CROS
LINK_1276	46	8	48.79	45.74	56.80	56.70	0.0663	4TH AVE. CROS
LINK_1277	45	8	49.95	46.54	57.27	57.10	0.0757	4TH AVE. CROS
LINK_1278	45	8	50.88	47.01	58.04	57.72	0.0860	4TH AVE. CROS
LINK_1279	0	0	0.00	42.38	53.85	53.85	0.0000	
LINK_1280	0	0	0.00	43.42	54.06	54.06	0.0000	
LINK_1281	0	0	0.00	43.94	54.02	54.02	0.0000	
LINK_1282	0	0	0.00	44.47	54.28	54.28	0.0000	
LINK_1283	0	0	0.00	44.89	54.52	54.52	0.0000	
LINK_1284	0	0	0.00	45.10	54.52	54.52	0.0000	
LINK_1285	0	0	0.00	45.84	54.82	54.82	0.0000	
LINK_1286	0	0	0.00	46.51	55.51	55.51	0.0000	
LINK_1287	0	0	0.00	47.49	56.46	56.46	0.0000	
LINK_1288	0	0	0.00	48.79	56.80	56.80	0.0000	
LINK_1289	0	0	0.00	49.95	57.27	57.27	0.0000	
LINK_1290	0	0	0.00	50.68	58.04	58.04	0.0000	
LINK_1291	0	0	0.00	51.81	58.97	58.97	0.0000	
LINK_1292	0	0	0.00	51.21	57.03	57.03	0.0000	
LINK_1293	0	**	0.00	45.00	65.16	65.16	0.0000	
LINK_1294	430	4	52.00	58.15	65.15	64.83	-.0140	4TH STREET TR
LINK_1295	0	**	0.00	48.27	68.00	68.00	0.0000	
LINK_1296	2886	8	62.00	61.00	68.00	69.00	0.0003	
LINK_1297	0	**	0.00	39.50	58.00	58.00	0.0000	
LINK_1298	259	4	48.00	52.14	58.00	57.30	-.0150	EASTSIDE TRU
LINK_1299	190	8	54.99	54.66	60.40	60.10	0.0017	E-1
LINK_1300	305	8	54.66	54.20	60.10	59.80	0.0015	E-1
LINK_1301	280	8	54.20	53.75	59.80	59.50	0.0016	E-1
LINK_1302	150	12	53.75	53.54	59.50	58.90	0.0014	E-1
LINK_1303	140	12	53.54	53.33	58.90	58.70	0.0015	E-1
LINK_1304	260	12	53.33	52.91	58.70	58.30	0.0016	E-1
LINK_1305	280	12	52.91	52.48	58.30	57.60	0.0015	E-1
LINK_1306	325	12	52.40	51.86	57.60	57.20	0.0016	E-1
LINK_1307	265	12	51.86	51.54	57.20	56.90	0.0012	E-1
LINK_1308	420	8	56.37	54.94	63.30	64.82	0.0034	EE-1
LINK_1309	315	8	61.14	60.66	63.40	63.50	0.0015	EE-1
LINK_1310	355	8	60.46	59.31	63.50	64.24	0.0032	EE-1
LINK_1311	400	8	59.31	58.50	64.24	64.35	0.0020	EE-1
LINK_1312	423	8	59.00	58.40	64.38	64.80	0.0014	EE-1
LINK_1313	340	8	58.40	57.43	64.83	63.72	0.0028	EE-1
LINK_1314	538	6	73.78	72.97	75.00	74.00	0.0015	8TH STREET TR
LINK_1315	797	6	72.97	71.78	74.00	73.00	0.0014	8TH STREET TR
LINK_1316	1039	6	71.78	70.22	74.00	73.00	0.0015	8TH STREET TR
LINK_1317	1050	6	70.22	68.64	73.00	71.00	0.0015	8TH STREET TR
LINK_1318	649	6	68.64	67.35	71.00	70.00	0.0019	8TH STREET TR
LINK_1319	356	8	57.31	56.81	61.90	62.20	0.0014	A-1
LINK_1320	328	8	56.81	56.30	62.20	62.60	0.0015	A-1
LINK_1321	350	8	58.60	56.69	62.00	62.60	0.0054	A-1
LINK_1322	332	8	56.69	56.17	62.50	62.90	0.0015	A-1
LINK_1323	237	8	56.93	56.51	63.50	62.40	0.0017	A-1



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 28

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1324	343	8	56.51	55.93	62.40	62.80	0.0016	A-1
LINK_1325	340	8	55.93	55.36	62.80	63.50	0.0016	A-1
LINK_1326	234	8	56.87	56.33	63.30	62.80	0.0023	A-1
LINK_1327	350	8	56.33	55.62	62.80	63.10	0.0020	A-1
LINK_1328	336	8	55.62	54.90	63.10	63.60	0.0021	A-1
LINK_1329	303	12	56.30	55.84	62.60	62.90	0.0015	A-1
LINK_1330	296	12	55.84	55.36	62.90	63.50	0.0016	A-1
LINK_1331	296	12	55.36	54.90	63.50	63.60	0.0015	A-1
LINK_1332	280	12	54.90	54.41	63.60	62.80	0.0017	A-1
LINK_1333	325	12	56.60	55.84	65.40	63.70	0.0023	A-1
LINK_1334	375	12	55.85	55.13	63.70	63.00	0.0019	A-1
LINK_1335	349	12	55.13	54.41	63.00	62.80	0.0020	A-1
LINK_1336	284	12	54.41	53.68	62.80	62.70	0.0025	A-1
LINK_1337	339	12	53.68	53.09	62.70	63.10	0.0017	A-1
LINK_1338	311	12	53.09	52.49	63.10	63.40	0.0019	A-1
LINK_1339	229	12	52.49	51.09	63.40	64.20	0.0061	A-1
LINK_1340	300	8	55.00	54.31	61.05	61.81	0.0023	A-1
LINK_1341	410	8	54.31	53.62	61.81	62.51	0.0016	A-1
LINK_1342	300	8	54.40	53.74	60.50	61.26	0.0022	A-1
LINK_1343	410	8	53.74	53.08	61.26	62.06	0.0016	A-1
LINK_1344	300	8	54.00	53.34	60.00	60.74	0.0022	A-1
LINK_1345	410	8	53.34	52.68	60.76	61.45	0.0016	A-1
LINK_1346	282	12	54.03	53.46	62.50	62.70	0.0020	A-1
LINK_1347	495	12	53.46	52.60	62.70	62.80	0.0017	A-1
LINK_1348	194	12	52.60	52.30	62.80	62.65	0.0015	A-1
LINK_1349	162	12	52.30	52.00	62.65	62.51	0.0018	A-1
LINK_1350	169	12	52.00	51.80	62.51	62.50	0.0011	A-1
LINK_1351	103	12	51.80	50.97	62.50	62.06	0.0080	A-1
LINK_1352	345	12	50.97	50.49	62.06	61.45	0.0013	A-1
LINK_1353	410	12	50.44	49.56	61.45	61.00	0.0021	A-1
LINK_1354	600	8	60.40	59.44	65.10	65.80	0.0016	A-1
LINK_1355	268	8	59.44	59.01	65.80	66.02	0.0016	A-1
LINK_1356	302	8	59.98	59.49	66.40	65.70	0.0016	A-1
LINK_1357	301	8	59.89	59.01	65.70	66.02	0.0029	A-1
LINK_1358	325	8	59.01	58.39	66.02	66.00	0.0019	A-1
LINK_1359	282	8	60.70	60.26	65.60	65.50	0.0015	A-1
LINK_1360	332	8	60.26	59.72	65.50	65.80	0.0016	A-1
LINK_1361	332	8	59.72	59.19	65.80	66.10	0.0016	A-1
LINK_1362	330	8	59.19	58.59	66.10	66.10	0.0018	A-1
LINK_1363	280	8	61.40	60.95	65.80	65.70	0.0016	A-1
LINK_1364	391	8	60.95	60.42	65.70	66.00	0.0013	A-1
LINK_1365	272	8	60.42	59.89	66.00	66.30	0.0019	A-1
LINK_1366	335	8	59.89	59.29	66.30	66.46	0.0017	A-1
LINK_1367	455	8	60.58	59.85	68.70	66.90	0.0016	A-1
LINK_1368	506	8	59.85	59.00	66.90	67.30	0.0016	A-1
LINK_1369	320	8	59.00	58.50	67.90	66.95	0.0015	A-1
LINK_1370	265	8	63.50	59.58	68.50	66.70	0.0147	A-1
LINK_1371	200	8	59.58	59.16	66.70	68.30	0.0021	A-1
LINK_1372	105	8	61.37	61.14	67.86	67.56	0.0021	A-1





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE PHYSICAL DATA REPORT  
FILE RUN: SY\_ERUN1

10/10/94  
PAGE 29

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1373	160	8	61.14	60.80	67.56	66.94	0.0021	A-1
LINK_1374	215	8	60.80	60.31	66.94	67.21	0.0022	A-1
LINK_1375	330	8	60.31	59.74	67.21	67.75	0.0017	A-1
LINK_1376	285	8	59.74	59.16	67.75	68.30	0.0020	A-1
LINK_1377	190	8	59.16	58.71	68.30	68.72	0.0023	A-1
LINK_1378	215	8	58.71	58.31	68.72	69.06	0.0018	A-1
LINK_1379	265	24	58.73	58.07	69.00	69.06	0.0024	LA BRUCHERIE
LINK_1380	289	8	55.74	54.97	61.70	60.93	0.0026	B-3
LINK_1381	318	8	60.29	59.69	67.80	67.20	0.0018	BB-1
LINK_1382	288	8	59.69	59.08	67.20	66.60	0.0021	BB-1
LINK_1383	308	8	59.08	58.44	66.60	66.90	0.0020	BB-1
LINK_1384	289	8	58.44	58.25	69.50	66.90	0.0006	BB-1
LINK_1385	293	21	57.63	57.05	69.50	69.50	0.0019	PRISON TRUNK
LINK_1386	192	8	62.37	61.98	70.40	69.00	0.0020	BB-1
LINK_1387	303	8	61.98	61.60	69.00	68.80	0.0012	BB-1
LINK_1388	305	8	62.10	61.60	67.50	68.80	0.0016	BB-1
LINK_1389	179	8	62.35	62.10	67.80	67.50	0.0014	BB-1
LINK_1390	340	8	62.68	62.10	67.90	67.50	0.0017	BB-1
LINK_1391	298	8	62.60	62.10	67.50	67.50	0.0016	BB-1
LINK_1392	176	8	62.85	62.60	67.80	67.50	0.0014	BB-1
LINK_1393	338	8	63.20	62.60	68.00	67.50	0.0017	BB-1
LINK_1394	305	8	63.10	62.60	68.10	67.50	0.0016	BB-1
LINK_1395	176	8	63.35	63.10	68.20	63.35	0.0014	BB-1
LINK_1396	336	8	63.70	63.10	68.30	68.00	0.0017	BB-1
LINK_1397	462	8	52.55	51.70	59.00	58.40	0.0018	E-1
LINK_1398	268	8	53.08	52.55	59.20	59.00	0.0019	E-1
LINK_1399	462	8	53.08	52.23	59.20	58.60	0.0018	E-1
LINK_1400	181	8	53.92	53.61	59.70	59.50	0.0017	E-1
LINK_1401	452	8	53.61	52.76	59.50	58.80	0.0018	E-1
LINK_1402	102	8	53.01	52.76	60.60	58.80	0.0024	E-1
LINK_1403	268	8	52.76	52.23	58.80	58.60	0.0019	E-1
LINK_1404	268	8	52.23	51.70	58.60	58.40	0.0019	E-1
LINK_1405	284	8	51.70	51.23	58.40	58.20	0.0016	E-1
LINK_1406	156	8	52.40	51.90	57.60	57.27	0.0032	E-1
LINK_1407	167	8	52.94	52.40	58.10	57.60	0.0032	E-1
LINK_1408	218	8	53.51	52.94	58.50	58.10	0.0026	E-1
LINK_1409	295	8	53.51	52.92	58.50	58.50	0.0020	E-1
LINK_1410	539	8	52.92	51.32	58.50	57.00	0.0029	E-1
LINK_1411	126	8	61.37	61.05	67.86	67.73	0.0025	A-1
LINK_1412	367	8	61.05	60.24	67.73	67.32	0.0022	A-1
LINK_1413	242	8	60.24	59.97	67.32	67.40	0.0011	A-1
LINK_1414	188	8	59.97	59.43	67.40	67.78	0.0028	A-1
LINK_1415	133	8	61.13	60.80	66.64	66.94	0.0024	A-1
LINK_1416	270	8	61.69	61.13	67.11	66.64	0.0020	A-1
LINK_1417	287	8	62.24	61.69	67.57	67.11	0.0019	A-1
LINK_1418	178	8	62.24	61.85	67.57	67.48	0.0021	A-1
LINK_1419	179	8	61.85	61.45	67.48	67.35	0.0022	A-1
LINK_1420	225	8	61.45	61.06	67.35	66.60	0.0017	A-1
LINK_1421	355	8	61.06	60.25	66.60	66.09	0.0022	A-1



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE PHYSICAL DATA REPORT  
 FILE RUN: SY\_ERUN1

10/10/94  
 PAGE 30

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1422	328	8	60.25	59.68	66.09	66.70	0.0017	A-1
LINK_1423	1070	18	70.56	68.42	74.00	74.00	0.0020	PRISON TRUNK
LINK_1424	1180	18	68.42	66.06	74.00	74.00	0.0020	PRISON TRUNK
LINK_1425	796	18	66.06	64.47	74.00	72.00	0.0020	PRISON TRUNK
LINK_1426	946	18	64.47	62.58	72.00	72.00	0.0020	PRISON TRUNK
LINK_1427	0	0	0.00	54.45	63.70	63.70	0.0000	B-2
LINK_1428	307	12	66.37	65.75	74.00	74.00	0.0020	PRISON TRUNK
P_LINK_1429	0	**	0.00	61.73	74.00	74.00	0.0000	250 CU FT OR
LINK_1430	650	8	53.64	52.35	64.50	65.00	0.0019	CC-1
LINK_1431	442	8	52.35	59.21	65.00	65.50	-.0150	WAKE AVE. - W
LINK_1432	892	8	59.21	57.43	65.50	67.00	0.0020	CC-1
LINK_1433	190	8	57.43	57.05	67.00	69.50	0.0020	CC-1
LINK_1434	684	8	58.65	57.28	65.50	65.20	0.0020	WAKE AVE. - E
LINK_1435	125	6	71.00	70.36	78.00	78.00	0.0051	PRISON TRUNK
LINK_1436	429	10	44.20	43.35	52.50	53.00	0.0019	HEIL AVE. TRU
LINK_1437	403	10	43.35	42.54	53.00	53.50	0.0020	HEIL AVE. TRU
LINK_1438	292	10	42.54	41.95	53.50	54.50	0.0020	HEIL AVE. TRU
LINK_1439	141	10	41.95	41.67	54.50	54.50	0.0019	HEIL AVE. TRU
LINK_1440	0	**	0.00	35.00	55.00	55.00	0.0000	
LINK_1441	153	6	48.50	48.85	55.00	54.50	-.0020	
O_LINK_1515	50	12	40.00	48.00	45.00	45.00	-.1600	
P_LINK_1525	0	**	0.00	31.68	46.00	46.00	0.0000	



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 1

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1	509	27	8219.0	4.61	1.00	5559	2.12
LINK_2	405	27	7998.0	4.48	1.00	3978	2.13
LINK_3	248	15	2600.0	7.03	0.64	4252	2.47
LINK_4	381	15	2600.0	4.72	1.00	1163	2.47
LINK_5	367	15	2591.0	4.70	1.00	1447	2.48
LINK_6	448	15	2591.0	4.70	1.00	1373	2.48
LINK_7	477	15	2591.0	4.70	1.00	1145	2.48
LINK_8	715	15	2312.0	4.20	1.00	1210	2.50
LINK_9	287	15	2446.0	4.44	1.00	1732	2.49
LINK_10	348	15	2423.0	4.40	1.00	1340	2.49
LINK_11	296	15	2274.0	4.13	1.00	1362	2.50
LINK_12	405	15	2274.0	4.13	1.00	1164	2.50
LINK_13	149	12	1848.0	5.24	1.00	557	2.58
LINK_14	183	12	1822.0	5.17	1.00	749	2.59
LINK_15	377	12	1956.0	5.55	1.00	838	2.56
LINK_16	377	12	1949.0	5.53	1.00	710	2.56
LINK_17	173	12	1949.0	5.53	1.00	122	2.56
LINK_18	220	12	1883.0	5.34	1.00	794	2.57
LINK_19	133	12	1779.0	5.05	1.00	606	2.59
LINK_20	220	12	1600.0	4.54	1.00	611	2.63
LINK_21	25	12	1493.0	4.24	1.00	1110	2.65
LINK_22	34	12	1493.0	4.24	1.00	275	2.65
LINK_23	284	12	1411.0	4.00	1.00	807	2.66
LINK_24	55	12	595.0	0.20	0.00	0	2.87
LINK_25	225	12	1081.0	3.07	1.00	956	2.73
LINK_26	49	12	1356.0	0.20	0.00	0	2.67
LINK_27	242	12	1356.0	3.85	1.00	714	2.67
LINK_28	65	12	1334.0	3.78	1.00	1209	2.68
LINK_29	458	12	595.0	1.69	1.00	560	2.87
LINK_30	457	12	595.0	1.79	0.89	609	2.87
LINK_31	236	12	595.0	2.57	0.62	1006	2.87
LINK_32	242	12	595.0	1.69	1.00	525	2.87
LINK_33	73	8	275.0	1.75	1.00	156	3.11
LINK_34	450	12	595.0	1.69	1.00	575	2.87
LINK_35	326	12	577.0	1.82	0.84	628	2.88
LINK_36	355	12	562.0	1.59	1.00	417	2.88
LINK_37	327	12	319.0	1.52	0.57	620	3.07
LINK_38	93	12	308.0	1.50	0.56	622	3.08
LINK_39	254	21	213.0	1.45	0.21	3194	3.26
LINK_40	637	21	213.0	1.71	0.19	4014	3.26
LINK_41	0	**	1836.0	0.00	0.00	0	2.58
LINK_42	837	8	0.0	0.20	0.00	505	3.50
LINK_43	610	18	91.0	1.16	0.17	2113	3.44
LINK_44	627	18	91.0	1.16	0.17	2118	3.44
LINK_45	646	21	91.0	1.16	0.14	3186	3.44
LINK_46	587	21	91.0	1.16	0.14	3196	3.44
LINK_47	465	27	5194.0	3.19	0.85	5559	2.30
LINK_48	376	27	5316.0	3.45	0.80	6098	2.29
LINK_49	616	27	5468.0	3.06	1.00	1123	2.28





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 2

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_50	505	27	5468.0	3.26	0.89	5615	2.28
LINK_51	415	27	5624.0	3.15	1.00	3870	2.28
LINK_52	188	27	5624.0	3.15	1.00	2273	2.28
LINK_53	35	27	5624.0	4.88	0.62	9712	2.28
LINK_54	373	27	5624.0	3.15	1.00	5399	2.28
LINK_55	435	27	5624.0	3.15	1.00	4432	2.28
LINK_56	370	27	5680.0	5.29	0.58	10891	2.27
LINK_57	36	27	5680.0	0.20	0.00	0	2.27
LINK_58	219	27	5680.0	0.20	0.00	0	2.27
LINK_59	346	27	5680.0	3.62	0.82	6357	2.27
LINK_60	87	27	5733.0	3.21	1.00	5590	2.27
LINK_61	479	22	4351.0	3.67	1.00	3742	2.34
LINK_62	73	22	4351.0	3.67	1.00	945	2.34
LINK_63	66	22	4351.0	3.67	1.00	2980	2.34
LINK_64	342	27	4398.0	3.05	0.76	5537	2.34
LINK_65	840	27	4446.0	2.49	1.00	3936	2.34
LINK_66	1205	27	5008.0	2.81	1.00	3613	2.31
LINK_67	200	27	5112.0	3.19	0.84	5574	2.30
LINK_68	28	8	697.0	0.20	0.00	0	2.83
LINK_69	270	12	706.0	2.00	1.00	703	2.82
LINK_70	394	12	715.0	2.03	1.00	708	2.82
LINK_71	252	12	721.0	2.18	0.88	742	2.82
LINK_72	236	12	728.0	2.35	0.82	815	2.81
LINK_73	184	12	731.0	2.07	1.00	515	2.81
LINK_74	354	12	811.0	2.30	1.00	767	2.79
LINK_75	205	12	818.0	2.32	1.00	717	2.79
LINK_76	241	12	821.0	2.33	1.00	677	2.79
LINK_77	522	12	828.0	2.35	1.00	775	2.78
LINK_78	190	12	697.0	2.13	0.87	726	2.83
LINK_79	207	12	694.0	1.97	1.00	546	2.83
LINK_80	174	12	669.0	2.20	0.80	768	2.84
LINK_81	324	10	501.0	2.22	0.86	528	2.92
LINK_82	614	10	490.0	2.00	1.00	367	2.93
LINK_83	209	10	420.0	2.11	0.76	524	2.99
LINK_84	365	8	360.0	2.30	1.00	246	3.04
LINK_85	359	8	294.0	1.88	1.00	167	3.09
LINK_86	352	8	171.0	1.09	1.00	166	3.36
LINK_87	185	8	154.0	1.93	0.51	375	3.40
LINK_88	179	8	278.0	1.85	0.91	279	3.10
LINK_89	351	8	243.0	1.55	1.00	203	3.19
LINK_90	335	8	206.0	1.81	0.69	301	3.28
LINK_91	108	8	114.0	2.04	0.38	462	3.43
LINK_92	70	8	111.0	1.29	0.54	243	3.43
LINK_93	373	18	1798.0	2.27	1.00	1528	2.59
LINK_94	207	18	1828.0	2.40	0.91	1829	2.59
LINK_95	179	18	1829.0	2.54	0.85	1967	2.59
LINK_96	189	18	1859.0	3.36	0.66	2876	2.58
LINK_97	184	18	1859.0	3.41	0.65	2936	2.58
LINK_98	364	8	147.0	1.65	0.55	307	3.40



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 3

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_99	298	8	141.0	1.66	0.53	315	3.41
LINK_100	167	10	174.0	1.35	0.52	404	3.35
LINK_101	202	10	174.0	1.76	0.42	588	3.35
LINK_102	150	12	172.0	1.33	0.39	667	3.36
LINK_103	204	12	172.0	1.60	0.34	884	3.36
LINK_104	111	12	193.0	0.86	0.61	340	3.31
LINK_105	251	12	193.0	1.59	0.37	828	3.31
LINK_106	50	12	212.0	1.31	0.47	600	3.27
LINK_107	102	12	212.0	1.50	0.42	727	3.27
LINK_108	197	12	174.0	1.43	0.37	740	3.35
LINK_109	190	14	197.0	1.60	0.30	1277	3.30
LINK_110	170	14	143.0	1.54	0.26	1337	3.41
LINK_111	203	14	156.0	1.49	0.27	1258	3.39
LINK_112	163	14	156.0	1.55	0.27	1326	3.39
LINK_113	189	14	180.0	1.41	0.31	1112	3.34
LINK_114	194	14	180.0	1.23	0.34	918	3.34
LINK_115	162	8	137.0	0.20	0.00	0	3.41
LINK_116	208	8	137.0	1.67	0.52	322	3.41
LINK_117	236	12	611.0	2.35	0.70	873	2.86
LINK_118	244	12	625.0	2.06	0.80	718	2.86
LINK_119	325	12	658.0	1.87	1.00	333	2.84
LINK_120	239	12	752.0	2.48	0.80	867	2.80
LINK_121	248	12	773.0	2.19	1.00	734	2.80
LINK_122	235	12	776.0	2.20	1.00	739	2.80
LINK_123	300	12	788.0	2.37	0.89	807	2.79
LINK_124	118	12	789.0	2.24	1.00	532	2.79
LINK_125	225	8	120.0	1.60	0.48	320	3.42
LINK_126	167	8	120.0	1.34	0.55	249	3.42
LINK_127	415	18	1836.0	2.32	1.00	1485	2.58
LINK_128	500	18	1836.0	2.32	1.00	1582	2.58
LINK_129	183	18	1836.0	3.09	0.71	2567	2.58
LINK_130	416	18	1836.0	2.32	1.00	613	2.58
LINK_131	60	8	1836.0	11.72	1.00	698	2.58
LINK_132	109	8	1596.0	10.19	0.00	0	2.63
LINK_133	271	18	2081.0	4.16	0.60	3721	2.53
LINK_134	413	18	2081.0	2.62	1.00	1115	2.53
LINK_135	452	18	2081.0	2.62	1.00	1043	2.53
LINK_136	40	18	2081.0	0.20	0.00	0	2.53
LINK_137	178	18	2119.0	2.67	1.00	614	2.53
LINK_138	47	18	2119.0	5.03	0.52	4874	2.53
LINK_139	388	18	1758.0	2.22	1.00	1399	2.60
LINK_140	345	18	1791.0	2.26	1.00	1763	2.59
LINK_141	409	18	1836.0	2.43	0.90	1855	2.58
LINK_142	236	18	1836.0	2.84	0.76	2281	2.58
LINK_143	141	18	1758.0	2.42	0.86	1867	2.60
LINK_144	356	15	255.0	2.06	0.28	1972	3.16
LINK_145	356	15	255.0	2.05	0.28	1966	3.16
LINK_146	416	15	1311.0	2.68	0.83	1453	2.68
LINK_147	364	15	1366.0	2.48	1.00	1345	2.67



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 4

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_148	358	15	1504.0	2.73	1.00	1229	2.65
LINK_149	386	15	1569.0	2.85	1.00	1155	2.64
LINK_150	368	15	1625.0	2.95	1.00	1212	2.62
LINK_151	369	15	1667.0	3.03	1.00	969	2.62
LINK_152	379	18	1708.0	2.15	1.00	1610	2.61
LINK_153	197	18	1758.0	2.87	0.73	2357	2.60
LINK_154	456	27	1231.0	1.81	0.41	4521	2.70
LINK_155	637	27	1231.0	2.04	0.37	5410	2.70
LINK_156	468	30	1231.0	2.41	0.28	9149	2.70
LINK_157	364	30	1231.0	2.12	0.30	7739	2.70
LINK_158	456	30	1231.0	2.04	0.31	7334	2.70
LINK_159	462	30	1231.0	2.03	0.31	7286	2.70
LINK_160	487	30	1231.0	2.91	0.26	11619	2.70
LINK_161	493	30	1231.0	2.06	0.31	7435	2.70
LINK_162	465	30	1231.0	2.07	0.31	7462	2.70
LINK_163	557	30	1231.0	2.01	0.32	7167	2.70
LINK_164	484	30	1231.0	4.28	0.20	19567	2.70
LINK_165	242	30	1231.0	1.58	0.38	5034	2.70
LINK_166	301	27	985.0	2.04	0.31	5957	2.75
LINK_167	373	27	1096.0	2.01	0.34	5589	2.73
LINK_168	387	27	1096.0	1.96	0.34	5395	2.73
LINK_169	342	27	1127.0	2.01	0.34	5537	2.72
LINK_170	447	27	1127.0	1.95	0.35	5273	2.72
LINK_171	323	27	1208.0	2.02	0.36	5372	2.70
LINK_172	359	27	1208.0	2.08	0.36	5601	2.70
LINK_173	365	27	1214.0	1.89	0.39	4838	2.70
LINK_174	410	27	1231.0	2.11	0.36	5675	2.70
LINK_175	574	27	1231.0	2.10	0.36	5639	2.70
LINK_176	606	27	1231.0	2.02	0.37	5310	2.70
LINK_177	247	24	231.0	1.59	0.18	5100	3.22
LINK_178	921	24	482.0	1.70	0.26	4308	2.93
LINK_179	566	24	549.0	1.29	0.34	2838	2.89
LINK_180	614	24	554.0	1.81	0.27	4500	2.89
LINK_181	563	24	567.0	1.85	0.27	4580	2.88
LINK_182	336	24	654.0	1.69	0.31	3887	2.84
LINK_183	215	24	697.0	1.81	0.31	4165	2.83
LINK_184	96	24	697.0	1.68	0.33	3746	2.83
LINK_185	298	24	737.0	1.79	0.33	3999	2.81
LINK_186	121	24	806.0	1.91	0.33	4240	2.79
LINK_187	507	24	807.0	1.96	0.33	4383	2.79
LINK_188	218	27	846.0	1.96	0.29	5969	2.78
LINK_189	297	27	920.0	1.88	0.31	5484	2.77
LINK_190	106	27	954.0	1.89	0.32	5414	2.76
LINK_191	198	27	954.0	1.84	0.33	5240	2.76
LINK_192	302	8	8.0	0.63	0.15	244	3.50
LINK_193	343	8	16.0	0.68	0.22	212	3.49
LINK_194	307	8	24.0	0.80	0.26	226	3.48
LINK_195	354	8	31.0	0.76	0.30	198	3.48
LINK_196	292	8	39.0	1.04	0.29	277	3.48





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 5

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_197	303	8	46.0	0.56	0.52	108	3.47
LINK_198	298	8	52.0	1.03	0.35	244	3.47
LINK_199	286	8	8.0	0.64	0.15	243	3.50
LINK_200	337	8	16.0	0.69	0.22	213	3.49
LINK_201	298	8	25.0	0.81	0.26	229	3.48
LINK_202	356	8	32.0	0.79	0.30	208	3.48
LINK_203	300	8	39.0	1.00	0.29	264	3.48
LINK_204	297	8	46.0	0.57	0.51	109	3.47
LINK_205	284	8	53.0	2.05	0.24	610	3.47
LINK_206	282	8	9.0	0.67	0.15	257	3.50
LINK_207	304	8	17.0	0.78	0.21	247	3.49
LINK_208	363	8	24.0	0.79	0.26	225	3.49
LINK_209	288	8	32.0	0.89	0.28	242	3.48
LINK_210	299	8	38.0	0.94	0.30	243	3.48
LINK_211	285	8	46.0	1.00	0.33	249	3.47
LINK_212	290	8	8.0	0.65	0.15	251	3.50
LINK_213	301	8	16.0	0.76	0.21	247	3.49
LINK_214	367	8	22.0	0.78	0.26	223	3.49
LINK_215	291	8	29.0	0.88	0.27	245	3.48
LINK_216	293	8	36.0	0.92	0.29	244	3.48
LINK_217	284	8	42.0	0.97	0.32	248	3.47
LINK_218	293	8	10.0	0.60	0.18	213	3.49
LINK_219	232	8	13.0	0.74	0.18	257	3.49
LINK_220	254	8	13.0	0.96	0.16	361	3.49
LINK_221	380	8	11.0	0.68	0.18	240	3.49
LINK_222	431	8	45.0	0.99	0.32	248	3.47
LINK_223	463	8	58.0	1.05	0.38	238	3.46
LINK_224	439	8	42.0	0.97	0.32	245	3.47
LINK_225	455	8	54.0	1.04	0.36	242	3.47
LINK_226	203	8	27.0	1.01	0.24	298	3.48
LINK_227	449	8	108.0	1.28	0.53	243	3.43
LINK_228	457	8	114.0	1.09	0.63	189	3.43
LINK_229	235	8	12.0	0.77	0.17	275	3.49
LINK_230	266	8	22.0	0.75	0.26	213	3.49
LINK_231	244	8	32.0	0.97	0.27	270	3.48
LINK_232	236	8	36.0	0.80	0.33	200	3.48
LINK_233	312	8	45.0	0.96	0.33	238	3.47
LINK_234	316	8	76.0	1.15	0.44	241	3.45
LINK_235	288	8	76.0	0.77	0.61	136	3.45
LINK_236	333	8	76.0	0.99	0.49	195	3.45
LINK_237	321	8	76.0	1.01	0.49	201	3.45
LINK_238	351	8	59.0	1.06	0.38	241	3.46
LINK_239	346	8	76.0	1.15	0.44	243	3.45
LINK_240	195	8	91.0	1.24	0.48	249	3.44
LINK_241	610	8	8.0	0.58	0.16	218	3.50
LINK_242	270	8	4.0	0.64	0.10	319	3.50
LINK_243	331	8	8.0	0.72	0.14	293	3.50
LINK_244	256	8	8.0	0.79	0.13	331	3.50
LINK_245	313	8	15.0	0.88	0.18	309	3.49





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 6

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_246	257	8	263.0	1.68	1.00	260	3.14
LINK_247	295	8	267.0	1.86	0.86	283	3.13
LINK_248	311	8	8.0	0.59	0.16	220	3.50
LINK_249	215	8	15.0	0.82	0.19	277	3.49
LINK_250	258	8	8.0	0.77	0.14	319	3.50
LINK_251	307	8	15.0	0.91	0.18	324	3.49
LINK_252	329	8	30.0	0.85	0.28	234	3.48
LINK_253	317	8	303.0	1.93	1.00	248	3.08
LINK_254	130	8	315.0	2.01	1.00	158	3.07
LINK_255	127	8	360.0	2.77	0.77	437	3.04
LINK_256	239	8	360.0	2.30	1.00	161	3.04
LINK_257	156	8	403.0	2.57	1.00	272	3.00
LINK_258	184	8	403.0	2.57	1.00	237	3.00
LINK_259	202	8	403.0	2.69	0.91	405	3.00
LINK_260	111	8	0.0	0.20	0.00	432	3.50
LINK_261	285	8	75.0	1.18	0.42	254	3.45
LINK_262	312	8	75.0	1.02	0.47	206	3.45
LINK_263	179	8	75.0	1.71	0.32	432	3.45
LINK_264	317	12	104.0	1.18	0.29	703	3.43
LINK_265	290	12	108.0	1.19	0.30	698	3.43
LINK_266	308	12	496.0	1.87	0.71	689	2.92
LINK_267	410	12	506.0	1.97	0.69	738	2.91
LINK_268	344	8	9.0	0.44	0.21	141	3.49
LINK_269	414	8	19.0	1.07	0.18	372	3.49
LINK_270	371	8	11.0	0.68	0.18	241	3.49
LINK_271	384	8	22.0	0.81	0.25	237	3.49
LINK_272	400	8	5.0	0.57	0.13	243	3.50
LINK_273	348	8	11.0	0.72	0.17	261	3.49
LINK_274	332	8	96.0	0.89	0.65	152	3.44
LINK_275	334	8	117.0	0.93	0.75	149	3.42
LINK_276	328	8	135.0	1.34	0.61	234	3.41
LINK_277	290	8	28.0	1.09	0.24	325	3.48
LINK_278	352	8	21.0	0.49	0.31	126	3.49
LINK_279	302	8	11.0	0.70	0.17	250	3.49
LINK_280	288	8	8.0	0.64	0.16	244	3.50
LINK_281	332	8	11.0	0.68	0.18	239	3.49
LINK_282	321	8	14.0	0.73	0.19	245	3.49
LINK_283	173	8	42.0	0.90	0.33	223	3.47
LINK_284	224	8	24.0	0.86	0.25	246	3.48
LINK_285	289	8	24.0	0.85	0.26	243	3.48
LINK_286	425	8	71.0	1.10	0.43	234	3.45
LINK_287	394	8	77.0	1.15	0.44	242	3.45
LINK_288	349	8	239.0	1.52	1.00	231	3.20
LINK_289	484	8	239.0	1.52	1.00	217	3.20
LINK_290	325	8	239.0	1.89	0.76	300	3.20
LINK_291	284	8	3.0	0.46	0.09	241	3.50
LINK_292	310	8	53.0	1.24	0.31	318	3.47
LINK_293	151	8	119.0	1.39	0.53	262	3.42
LINK_294	274	8	137.0	1.82	0.48	364	3.41



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 7

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_295	394	8	137.0	1.49	0.57	272	3.41
LINK_296	458	8	90.0	0.97	0.57	178	3.44
LINK_297	427	8	129.0	1.41	0.57	258	3.42
LINK_298	461	8	149.0	1.51	0.60	268	3.40
LINK_299	302	8	167.0	1.78	0.58	322	3.37
LINK_300	136	8	185.0	1.74	0.64	298	3.33
LINK_301	435	8	191.0	1.48	0.77	235	3.31
LINK_302	70	8	191.0	1.44	0.79	225	3.31
LINK_303	253	8	35.0	1.02	0.28	280	3.48
LINK_304	171	8	35.0	0.71	0.35	171	3.48
LINK_305	188	8	35.0	0.85	0.30	221	3.48
LINK_306	553	8	72.0	1.35	0.37	314	3.45
LINK_307	329	8	140.0	1.45	0.59	258	3.41
LINK_308	348	8	140.0	1.50	0.58	272	3.41
LINK_309	320	8	161.0	1.71	0.58	308	3.38
LINK_310	261	8	161.0	1.34	0.72	218	3.38
LINK_311	58	8	161.0	1.37	0.71	226	3.38
LINK_312	408	8	35.0	0.84	0.31	217	3.48
LINK_313	345	8	35.0	0.82	0.31	209	3.48
LINK_314	377	8	56.0	1.27	0.32	322	3.46
LINK_315	330	8	56.0	1.17	0.34	285	3.46
LINK_316	507	8	86.0	1.34	0.43	286	3.44
LINK_317	347	8	86.0	1.55	0.38	351	3.44
LINK_318	458	8	154.0	1.40	0.67	236	3.40
LINK_319	215	8	154.0	1.43	0.65	243	3.40
LINK_320	320	8	160.0	1.02	1.00	91	3.38
LINK_321	333	8	267.0	1.71	1.00	235	3.13
LINK_322	160	8	267.0	2.15	0.75	344	3.13
LINK_323	295	8	267.0	1.71	1.00	192	3.13
LINK_324	301	8	267.0	1.71	1.00	243	3.13
LINK_325	511	8	414.0	2.65	1.00	232	2.99
LINK_326	490	8	435.0	2.78	1.00	225	2.97
LINK_327	53	10	435.0	1.90	0.88	449	2.97
LINK_328	257	10	435.0	3.02	0.57	861	2.97
LINK_329	92	8	0.0	0.20	0.00	358	3.50
LINK_330	208	8	52.0	1.31	0.30	343	3.47
LINK_331	47	8	52.0	0.83	0.42	177	3.47
LINK_332	264	8	52.0	1.13	0.33	280	3.47
LINK_333	280	8	79.0	1.38	0.39	306	3.45
LINK_334	299	8	79.0	1.23	0.43	261	3.45
LINK_335	287	8	79.0	1.36	0.40	303	3.45
LINK_336	257	8	102.0	1.51	0.44	316	3.43
LINK_337	235	8	102.0	2.10	0.34	510	3.43
LINK_338	283	8	18.0	0.72	0.24	217	3.49
LINK_339	404	8	32.0	0.82	0.29	216	3.48
LINK_340	367	8	40.0	1.21	0.27	336	3.47
LINK_341	413	8	47.0	1.13	0.30	294	3.47
LINK_342	254	8	47.0	1.16	0.30	305	3.47
LINK_343	242	8	53.0	1.29	0.30	335	3.47



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 8

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_344	402	8	17.0	0.75	0.21	239	3.49
LINK_345	468	8	29.0	0.84	0.28	230	3.48
LINK_346	416	8	40.0	1.77	0.22	553	3.47
LINK_347	415	8	57.0	1.41	0.30	371	3.46
LINK_348	459	8	69.0	1.39	0.35	332	3.46
LINK_349	410	8	77.0	1.55	0.35	374	3.45
LINK_350	371	8	126.0	1.36	0.57	249	3.42
LINK_351	427	8	155.0	1.42	0.66	241	3.40
LINK_352	395	8	173.0	1.53	0.68	255	3.36
LINK_353	134	8	220.0	3.17	0.45	656	3.25
LINK_354	864	12	234.0	1.80	0.40	898	3.21
LINK_355	429	12	246.0	2.05	0.37	1072	3.19
LINK_356	425	8	12.0	1.03	0.14	410	3.49
LINK_357	440	8	25.0	1.07	0.22	334	3.48
LINK_358	395	8	32.0	1.14	0.25	329	3.48
LINK_359	504	8	12.0	0.85	0.16	318	3.49
LINK_360	418	8	25.0	1.17	0.21	376	3.48
LINK_361	349	8	32.0	1.23	0.24	366	3.48
LINK_362	194	8	3.0	0.51	0.10	253	3.50
LINK_363	188	8	8.0	1.11	0.11	533	3.50
LINK_364	191	8	8.0	0.67	0.15	261	3.50
LINK_365	160	8	5.0	0.74	0.10	370	3.50
LINK_366	287	8	18.0	0.85	0.21	272	3.49
LINK_367	298	8	29.0	1.03	0.25	297	3.48
LINK_368	187	8	8.0	0.74	0.13	310	3.50
LINK_369	178	8	10.0	0.79	0.15	299	3.49
LINK_370	275	8	5.0	0.55	0.12	243	3.50
LINK_371	173	8	8.0	0.70	0.14	283	3.50
LINK_372	307	8	20.0	0.89	0.22	281	3.49
LINK_373	268	8	31.0	0.70	0.32	176	3.48
LINK_374	364	8	41.0	0.99	0.31	255	3.47
LINK_375	324	8	49.0	1.46	0.27	404	3.47
LINK_376	173	8	5.0	0.68	0.11	312	3.50
LINK_377	332	8	14.0	0.86	0.18	300	3.49
LINK_378	333	8	24.0	0.87	0.25	251	3.48
LINK_379	344	8	14.0	0.84	0.18	296	3.49
LINK_380	474	8	25.0	0.92	0.25	265	3.48
LINK_381	347	12	261.0	1.58	0.47	720	3.15
LINK_382	294	12	279.0	1.50	0.52	648	3.10
LINK_383	321	12	319.0	1.65	0.54	699	3.07
LINK_384	298	12	339.0	1.66	0.56	689	3.05
LINK_385	167	8	5.0	0.54	0.12	242	3.50
LINK_386	323	8	15.0	0.88	0.18	310	3.49
LINK_387	341	8	25.0	1.07	0.22	336	3.48
LINK_388	155	12	288.0	1.81	0.46	834	3.09
LINK_389	308	8	11.0	1.09	0.14	449	3.49
LINK_390	353	8	19.0	1.18	0.18	420	3.49
LINK_391	426	8	87.0	1.26	0.45	262	3.44
LINK_392	455	8	93.0	1.52	0.41	329	3.44





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 9

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_393	396	8	99.0	2.04	0.34	495	3.44
LINK_394	320	8	136.0	1.71	0.50	334	3.41
LINK_395	139	8	222.0	1.74	0.76	277	3.24
LINK_396	367	8	12.0	0.66	0.19	225	3.49
LINK_397	463	8	26.0	1.09	0.22	339	3.48
LINK_398	395	8	37.0	1.38	0.24	407	3.48
LINK_399	397	8	13.0	0.97	0.16	366	3.49
LINK_400	448	8	24.0	1.07	0.21	339	3.49
LINK_401	354	8	14.0	0.93	0.17	339	3.49
LINK_402	458	8	22.0	0.97	0.22	302	3.49
LINK_403	325	8	26.0	1.00	0.24	295	3.48
LINK_404	302	8	54.0	1.30	0.31	337	3.47
LINK_405	376	8	13.0	0.98	0.16	372	3.49
LINK_406	467	8	23.0	1.05	0.21	335	3.49
LINK_407	417	8	86.0	1.53	0.39	344	3.44
LINK_408	228	8	15.0	0.75	0.20	244	3.49
LINK_409	182	8	15.0	0.97	0.17	351	3.49
LINK_410	310	8	101.0	1.64	0.41	355	3.44
LINK_411	327	8	11.0	0.74	0.17	267	3.49
LINK_412	292	8	45.0	1.11	0.30	292	3.47
LINK_413	327	8	56.0	1.18	0.34	290	3.46
LINK_414	336	8	64.0	1.32	0.34	321	3.46
LINK_415	145	8	64.0	1.27	0.35	303	3.46
LINK_416	421	12	347.0	2.06	0.48	927	3.05
LINK_417	462	12	357.0	1.84	0.54	778	3.04
LINK_418	396	12	364.0	2.03	0.51	886	3.03
LINK_419	218	8	2.0	0.45	0.05	361	3.50
LINK_420	209	8	11.0	0.79	0.16	291	3.49
LINK_421	225	8	12.0	0.81	0.16	301	3.49
LINK_422	222	8	12.0	0.81	0.16	301	3.49
LINK_423	300	8	17.0	0.86	0.20	281	3.49
LINK_424	172	8	33.0	1.08	0.26	307	3.48
LINK_425	147	8	33.0	0.99	0.27	273	3.48
LINK_426	243	8	48.0	1.13	0.31	288	3.47
LINK_427	496	8	59.0	1.07	0.38	242	3.46
LINK_428	488	8	74.0	1.05	0.46	214	3.45
LINK_429	431	8	6.0	0.62	0.13	260	3.50
LINK_430	411	8	21.0	0.90	0.22	280	3.49
LINK_431	350	8	7.0	0.61	0.14	248	3.50
LINK_432	353	8	21.0	0.86	0.23	262	3.49
LINK_433	347	8	7.0	0.67	0.13	278	3.50
LINK_434	358	8	21.0	0.85	0.23	257	3.49
LINK_435	378	8	13.0	0.77	0.18	268	3.49
LINK_436	340	8	22.0	0.83	0.24	243	3.49
LINK_437	285	8	22.0	0.95	0.22	295	3.49
LINK_438	284	8	143.0	1.52	0.58	274	3.41
LINK_439	291	12	162.0	1.40	0.36	746	3.38
LINK_440	293	12	242.0	1.30	0.52	562	3.19
LINK_441	361	8	25.0	0.85	0.26	244	3.48



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 10

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_442	377	8	37.0	0.92	0.30	242	3.48
LINK_443	340	8	37.0	1.77	0.21	571	3.48
LINK_444	279	8	44.0	0.89	0.34	216	3.47
LINK_445	227	8	50.0	1.13	0.32	286	3.47
LINK_446	272	8	55.0	1.10	0.35	264	3.47
LINK_447	394	8	13.0	0.70	0.19	232	3.49
LINK_448	336	8	31.0	0.90	0.27	248	3.48
LINK_449	332	8	38.0	1.54	0.23	469	3.48
LINK_450	261	8	47.0	1.20	0.30	316	3.47
LINK_451	227	8	53.0	1.18	0.32	295	3.47
LINK_452	293	8	57.0	1.33	0.31	342	3.46
LINK_453	154	8	45.0	1.94	0.22	607	3.47
LINK_454	447	8	14.0	0.67	0.20	218	3.49
LINK_455	328	8	29.0	0.91	0.26	256	3.48
LINK_456	337	8	37.0	1.68	0.21	535	3.48
LINK_457	207	8	44.0	1.36	0.27	380	3.47
LINK_458	296	8	52.0	1.13	0.33	281	3.47
LINK_459	174	8	107.0	1.35	0.50	264	3.43
LINK_460	214	8	107.0	1.17	0.57	213	3.43
LINK_461	313	8	163.0	1.39	0.71	228	3.38
LINK_462	250	8	163.0	1.62	0.61	283	3.38
LINK_463	416	8	12.0	0.70	0.18	243	3.49
LINK_464	414	8	26.0	1.53	0.18	534	3.48
LINK_465	393	8	38.0	0.95	0.30	248	3.48
LINK_466	319	8	46.0	1.01	0.32	253	3.47
LINK_467	209	8	54.0	1.01	0.37	235	3.47
LINK_468	145	8	107.0	0.85	0.76	135	3.43
LINK_469	224	8	121.0	1.49	0.51	288	3.42
LINK_470	369	8	275.0	2.18	0.75	348	3.11
LINK_471	191	8	26.0	0.96	0.25	281	3.48
LINK_472	320	8	26.0	0.96	0.25	280	3.48
LINK_473	231	8	3.0	0.47	0.09	245	3.50
LINK_474	323	8	12.0	0.71	0.18	249	3.49
LINK_475	361	8	23.0	0.82	0.25	236	3.49
LINK_476	141	8	29.0	0.86	0.27	238	3.48
LINK_477	332	8	10.0	0.64	0.17	231	3.49
LINK_478	296	8	20.0	0.81	0.23	245	3.49
LINK_479	178	8	25.0	0.85	0.26	244	3.48
LINK_480	195	8	53.0	0.95	0.39	213	3.47
LINK_481	125	8	53.0	0.98	0.38	223	3.47
LINK_482	227	8	71.0	1.16	0.41	253	3.45
LINK_483	45	8	71.0	1.35	0.37	314	3.45
LINK_484	629	8	90.0	1.02	0.55	190	3.44
LINK_485	322	8	90.0	2.01	0.32	505	3.44
LINK_486	340	6	10.0	1.21	0.17	245	3.49
LINK_487	110	6	6.0	1.12	0.13	271	3.50
LINK_488	313	6	14.0	1.33	0.19	253	3.49
LINK_489	474	8	12.0	0.65	0.19	218	3.49
LINK_490	469	8	15.0	0.54	0.25	155	3.49



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 11

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_491	527	6	22.0	0.77	0.36	102	3.49
LINK_492	116	6	29.0	1.32	0.30	196	3.48
LINK_493	272	6	35.0	1.34	0.33	185	3.48
LINK_494	453	8	20.0	0.87	0.22	274	3.49
LINK_495	166	8	25.0	0.72	0.28	198	3.48
LINK_496	266	8	31.0	0.88	0.28	240	3.48
LINK_497	155	10	188.0	1.26	0.59	354	3.32
LINK_498	319	10	216.0	1.61	0.54	475	3.26
LINK_499	313	10	247.0	1.47	0.65	390	3.18
LINK_500	308	10	260.0	1.64	0.62	446	3.15
LINK_501	152	10	269.0	1.31	0.78	320	3.13
LINK_502	332	10	269.0	1.67	0.63	453	3.13
LINK_503	350	6	13.0	1.16	0.20	216	3.49
LINK_504	387	6	24.0	1.27	0.27	198	3.49
LINK_505	357	6	10.0	0.86	0.21	155	3.49
LINK_506	313	6	21.0	1.56	0.22	271	3.49
LINK_507	318	6	31.0	1.65	0.27	257	3.48
LINK_508	169	10	293.0	1.20	1.00	273	3.09
LINK_509	182	10	313.0	1.62	0.74	407	3.07
LINK_510	230	10	313.0	1.59	0.75	395	3.07
LINK_511	82	8	8.0	0.58	0.16	216	3.50
LINK_512	263	8	8.0	0.41	0.20	134	3.50
LINK_513	296	8	16.0	0.71	0.22	221	3.49
LINK_514	313	8	16.0	0.82	0.20	270	3.49
LINK_515	377	8	6.0	0.60	0.12	264	3.50
LINK_516	266	8	9.0	0.74	0.15	281	3.49
LINK_517	168	8	33.0	1.19	0.25	346	3.48
LINK_518	208	8	35.0	1.09	0.27	304	3.48
LINK_519	346	8	45.0	1.01	0.32	255	3.47
LINK_520	292	8	56.0	1.16	0.34	283	3.46
LINK_521	405	8	16.0	0.81	0.20	267	3.49
LINK_522	284	8	27.0	0.98	0.25	287	3.48
LINK_523	381	8	14.0	0.61	0.22	187	3.49
LINK_524	349	8	25.0	0.94	0.25	274	3.48
LINK_525	277	8	10.0	0.80	0.15	308	3.49
LINK_526	326	8	21.0	0.81	0.24	241	3.49
LINK_527	371	8	75.0	1.28	0.40	282	3.45
LINK_528	372	8	100.0	1.38	0.47	280	3.44
LINK_529	202	8	180.0	1.69	0.65	289	3.34
LINK_530	123	8	180.0	1.76	0.62	306	3.34
LINK_531	342	8	9.0	1.14	0.11	538	3.49
LINK_532	213	6	8.0	1.10	0.15	239	3.50
LINK_533	80	8	5.0	0.48	0.13	202	3.50
LINK_534	326	8	8.0	0.54	0.16	202	3.50
LINK_535	281	8	11.0	0.62	0.19	210	3.49
LINK_536	582	8	28.0	0.80	0.28	218	3.48
LINK_537	281	8	33.0	0.78	0.31	200	3.48
LINK_538	137	8	3.0	0.37	0.12	167	3.50
LINK_539	210	8	8.0	0.99	0.11	465	3.50





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 12

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_540	273	8	9.0	0.81	0.14	319	3.49
LINK_541	262	8	11.0	0.72	0.17	260	3.49
LINK_542	161	8	3.0	0.45	0.10	223	3.50
LINK_543	297	8	19.0	0.71	0.24	212	3.49
LINK_544	163	8	31.0	0.97	0.27	273	3.48
LINK_545	140	8	33.0	0.95	0.28	260	3.48
LINK_546	302	8	46.0	1.08	0.31	274	3.47
LINK_547	553	8	11.0	0.63	0.18	217	3.49
LINK_548	82	8	3.0	0.57	0.08	340	3.50
LINK_549	246	8	16.0	0.64	0.24	193	3.49
LINK_550	440	8	9.0	0.57	0.17	204	3.49
LINK_551	133	8	12.0	0.75	0.18	262	3.49
LINK_552	123	8	31.0	0.94	0.27	259	3.48
LINK_553	183	8	33.0	0.76	0.32	193	3.48
LINK_554	168	8	2.0	0.44	0.08	255	3.50
LINK_555	271	8	25.0	0.94	0.24	278	3.48
LINK_556	358	8	18.0	0.72	0.23	219	3.49
LINK_557	301	8	9.0	0.64	0.17	234	3.49
LINK_558	119	8	7.0	0.82	0.12	369	3.50
LINK_559	124	8	5.0	0.74	0.11	355	3.50
LINK_560	129	8	6.0	0.59	0.13	249	3.50
LINK_561	303	8	27.0	0.91	0.26	261	3.48
LINK_562	309	8	17.0	0.80	0.21	257	3.49
LINK_563	323	8	6.0	0.58	0.14	234	3.50
LINK_564	275	8	10.0	0.71	0.16	260	3.49
LINK_565	278	8	14.0	0.75	0.20	250	3.49
LINK_566	173	8	25.0	0.79	0.26	223	3.48
LINK_567	406	8	34.0	0.90	0.29	241	3.48
LINK_568	348	8	44.0	0.98	0.32	247	3.47
LINK_569	111	8	7.0	0.81	0.12	368	3.50
LINK_570	295	8	83.0	1.11	0.48	222	3.45
LINK_571	310	8	111.0	1.24	0.56	229	3.43
LINK_572	146	8	182.0	1.95	0.57	354	3.34
LINK_573	484	8	188.0	1.37	0.81	213	3.32
LINK_574	382	8	15.0	0.76	0.20	247	3.49
LINK_575	417	8	26.0	0.93	0.25	271	3.48
LINK_576	317	8	33.0	0.99	0.27	275	3.48
LINK_577	330	8	5.0	0.58	0.12	256	3.50
LINK_578	343	8	10.0	0.46	0.21	147	3.49
LINK_579	345	8	45.0	0.81	0.38	183	3.47
LINK_580	362	8	229.0	1.55	0.89	234	3.23
LINK_581	262	8	232.0	1.48	1.00	220	3.22
LINK_582	345	8	236.0	1.50	1.00	187	3.21
LINK_583	234	8	261.0	1.67	1.00	204	3.15
LINK_584	262	8	261.0	1.67	1.00	174	3.15
LINK_585	130	8	9.0	0.81	0.13	337	3.50
LINK_586	451	8	20.0	0.98	0.20	321	3.49
LINK_587	80	8	20.0	1.06	0.19	359	3.49
LINK_588	258	8	11.0	0.91	0.15	355	3.49





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 13

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_589	310	8	21.0	1.00	0.21	319	3.49
LINK_590	343	8	30.0	1.00	0.26	285	3.48
LINK_591	349	8	38.0	1.07	0.28	294	3.48
LINK_592	268	8	11.0	0.90	0.15	348	3.49
LINK_593	330	8	21.0	0.97	0.21	309	3.49
LINK_594	299	8	30.0	1.10	0.25	319	3.48
LINK_595	374	8	37.0	1.02	0.28	277	3.48
LINK_596	323	10	98.0	1.21	0.36	442	3.44
LINK_597	323	10	218.0	1.64	0.53	484	3.25
LINK_598	229	8	11.0	0.89	0.15	343	3.49
LINK_599	336	8	21.0	0.91	0.22	283	3.49
LINK_600	305	8	29.0	1.03	0.25	297	3.48
LINK_601	347	8	37.0	1.03	0.28	280	3.48
LINK_602	283	8	11.0	0.86	0.16	325	3.49
LINK_603	324	8	22.0	0.93	0.22	286	3.49
LINK_604	346	8	31.0	0.98	0.26	274	3.48
LINK_605	296	8	38.0	1.11	0.28	305	3.48
LINK_606	307	8	62.0	1.27	0.34	306	3.46
LINK_607	169	10	248.0	1.62	0.60	448	3.18
LINK_608	196	10	248.0	1.01	1.00	244	3.18
LINK_609	211	8	100.0	1.05	0.59	187	3.44
LINK_610	320	8	55.0	1.34	0.30	349	3.47
LINK_611	300	8	32.0	1.22	0.24	359	3.48
LINK_612	305	8	17.0	0.79	0.21	253	3.49
LINK_613	316	8	28.0	0.89	0.27	248	3.48
LINK_614	306	8	28.0	0.87	0.27	241	3.48
LINK_615	19	8	83.0	1.99	0.31	514	3.45
LINK_616	93	8	178.0	1.95	0.56	356	3.34
LINK_617	89	8	178.0	1.97	0.56	364	3.34
LINK_618	160	8	190.0	3.68	0.36	865	3.32
LINK_619	134	8	1.0	0.41	0.06	308	3.50
LINK_620	142	8	2.0	0.47	0.07	299	3.50
LINK_621	72	8	4.0	0.71	0.09	373	3.50
LINK_622	337	8	26.0	0.99	0.24	295	3.48
LINK_623	409	8	26.0	0.85	0.26	240	3.48
LINK_624	406	8	47.0	1.09	0.31	278	3.47
LINK_625	357	8	26.0	0.90	0.26	259	3.48
LINK_626	401	8	26.0	0.80	0.27	224	3.48
LINK_627	416	8	48.0	1.00	0.34	244	3.47
LINK_628	437	8	2.0	0.49	0.07	312	3.50
LINK_629	446	8	54.0	1.07	0.35	255	3.47
LINK_630	453	8	102.0	1.30	0.50	253	3.43
LINK_631	263	8	7.0	0.62	0.15	244	3.50
LINK_632	271	8	7.0	0.61	0.15	240	3.50
LINK_633	308	8	10.0	0.66	0.17	242	3.49
LINK_634	296	8	19.0	0.80	0.22	249	3.49
LINK_635	298	8	22.0	0.86	0.24	258	3.49
LINK_636	361	8	22.0	0.80	0.25	231	3.49
LINK_637	216	8	22.0	0.90	0.23	274	3.49



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 14

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_638	375	8	16.0	0.82	0.20	266	3.49
LINK_639	415	8	33.0	0.91	0.28	247	3.48
LINK_640	406	8	50.0	1.30	0.29	346	3.47
LINK_641	221	8	170.0	1.92	0.55	356	3.36
LINK_642	552	8	170.0	1.50	0.69	249	3.36
LINK_643	365	8	24.0	0.97	0.23	296	3.49
LINK_644	597	8	33.0	0.81	0.30	212	3.48
LINK_645	349	8	47.0	1.02	0.33	254	3.47
LINK_646	200	8	15.0	0.76	0.20	255	3.49
LINK_647	225	8	15.0	0.84	0.18	292	3.49
LINK_648	217	8	24.0	0.45	0.37	104	3.49
LINK_649	320	8	37.0	0.86	0.31	219	3.48
LINK_650	191	8	47.0	1.10	0.31	284	3.47
LINK_651	156	8	47.0	1.08	0.31	275	3.47
LINK_652	379	8	47.0	1.07	0.31	274	3.47
LINK_653	365	8	92.0	1.96	0.33	482	3.44
LINK_654	119	8	7.0	0.71	0.13	299	3.50
LINK_655	185	8	7.0	0.63	0.14	250	3.50
LINK_656	180	8	0.0	0.20	0.00	91	3.50
LINK_657	215	8	0.0	0.20	0.00	74	3.50
LINK_658	291	8	0.0	0.20	0.00	162	3.50
LINK_659	482	8	11.0	0.65	0.18	230	3.49
LINK_660	425	8	27.0	0.89	0.26	251	3.48
LINK_661	296	8	8.0	0.66	0.15	253	3.50
LINK_662	190	8	16.0	0.70	0.22	220	3.49
LINK_663	416	8	25.0	0.90	0.25	261	3.48
LINK_664	153	8	25.0	0.93	0.24	274	3.48
LINK_665	187	8	25.0	0.79	0.26	221	3.48
LINK_666	154	8	51.0	0.93	0.38	210	3.47
LINK_667	180	8	58.0	1.06	0.38	243	3.46
LINK_668	335	8	97.0	1.48	0.43	314	3.44
LINK_669	80	8	91.0	1.79	0.35	425	3.44
LINK_670	60	8	87.0	0.20	0.00	0	3.44
LINK_671	432	8	26.0	0.84	0.26	237	3.48
LINK_672	472	8	9.0	0.66	0.16	241	3.49
LINK_673	82	8	9.0	0.97	0.12	429	3.49
LINK_674	138	8	7.0	0.66	0.13	274	3.50
LINK_675	128	8	2.0	0.52	0.08	311	3.50
LINK_676	129	8	2.0	0.44	0.09	239	3.50
LINK_677	51	8	74.0	3.17	0.22	984	3.45
LINK_678	51	8	74.0	1.72	0.31	437	3.45
LINK_679	89	8	74.0	1.10	0.44	230	3.45
LINK_680	186	8	70.0	1.23	0.39	276	3.46
LINK_681	103	8	64.0	1.19	0.37	273	3.46
LINK_682	79	8	57.0	1.04	0.38	237	3.46
LINK_683	76	8	57.0	1.41	0.30	369	3.46
LINK_684	220	8	49.0	1.03	0.34	251	3.47
LINK_685	250	8	49.0	0.89	0.38	203	3.47
LINK_686	254	8	0.0	0.20	0.00	248	3.50



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 15

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_687	475	8	17.0	0.75	0.22	234	3.49
LINK_688	476	8	32.0	1.00	0.27	281	3.48
LINK_689	84	8	20.0	0.80	0.23	245	3.49
LINK_690	205	8	20.0	0.97	0.21	313	3.49
LINK_691	166	8	27.0	1.22	0.21	389	3.48
LINK_692	353	8	49.0	1.04	0.34	255	3.47
LINK_693	301	8	49.0	1.08	0.33	269	3.47
LINK_694	128	8	49.0	0.80	0.42	173	3.47
LINK_695	342	8	112.0	1.19	0.58	214	3.43
LINK_696	185	8	123.0	1.31	0.58	236	3.42
LINK_697	537	8	160.0	1.48	0.65	253	3.38
LINK_698	77	8	160.0	1.88	0.53	356	3.38
LINK_699	460	8	203.0	1.71	0.71	280	3.29
LINK_700	582	8	25.0	0.84	0.26	238	3.48
LINK_701	374	8	50.0	0.98	0.36	232	3.47
LINK_702	319	8	50.0	1.01	0.35	243	3.47
LINK_703	267	8	61.0	1.05	0.40	233	3.46
LINK_704	172	8	61.0	1.11	0.38	252	3.46
LINK_705	473	8	82.0	1.04	0.50	203	3.45
LINK_706	266	8	82.0	1.43	0.39	320	3.45
LINK_707	316	8	12.0	0.66	0.19	223	3.49
LINK_708	282	8	20.0	0.62	0.27	174	3.49
LINK_709	423	8	34.0	0.94	0.28	253	3.48
LINK_710	329	8	41.0	1.02	0.30	266	3.47
LINK_711	484	8	59.0	1.09	0.37	252	3.46
LINK_712	472	8	72.0	1.21	0.41	264	3.45
LINK_713	297	8	13.0	0.74	0.19	256	3.49
LINK_714	285	8	20.0	0.89	0.22	281	3.49
LINK_715	343	8	34.0	0.85	0.30	222	3.48
LINK_716	362	8	41.0	1.07	0.29	286	3.47
LINK_717	565	8	59.0	1.14	0.36	269	3.46
LINK_718	463	8	74.0	1.12	0.44	236	3.45
LINK_719	324	8	141.0	1.39	0.62	243	3.41
LINK_720	200	8	146.0	1.82	0.51	354	3.41
LINK_721	331	8	10.0	0.75	0.16	282	3.49
LINK_722	353	8	21.0	0.73	0.26	209	3.49
LINK_723	336	8	28.0	0.77	0.28	208	3.48
LINK_724	402	8	42.0	0.92	0.32	230	3.47
LINK_725	328	8	11.0	0.63	0.18	218	3.49
LINK_726	355	8	22.0	0.85	0.24	253	3.49
LINK_727	334	8	29.0	0.93	0.26	263	3.48
LINK_728	410	8	44.0	0.87	0.35	206	3.47
LINK_729	411	8	14.0	0.44	0.27	123	3.49
LINK_730	629	8	20.0	0.76	0.24	225	3.49
LINK_731	388	8	32.0	1.02	0.26	287	3.48
LINK_732	418	8	40.0	1.05	0.29	280	3.47
LINK_733	429	8	60.0	1.08	0.38	246	3.46
LINK_734	451	8	69.0	1.20	0.40	267	3.46
LINK_735	326	8	79.0	1.37	0.40	303	3.45





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 16

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_736	506	8	11.0	0.80	0.16	296	3.49
LINK_737	461	8	17.0	0.82	0.21	264	3.49
LINK_738	471	8	21.0	0.92	0.22	289	3.49
LINK_739	492	8	31.0	0.96	0.27	271	3.48
LINK_740	406	8	46.0	1.08	0.31	276	3.47
LINK_741	294	8	54.0	1.20	0.32	301	3.47
LINK_742	527	8	17.0	0.83	0.21	270	3.49
LINK_743	473	8	27.0	0.93	0.25	268	3.48
LINK_744	453	8	33.0	1.00	0.27	276	3.48
LINK_745	432	8	51.0	1.19	0.31	304	3.47
LINK_746	457	8	65.0	1.22	0.37	282	3.46
LINK_747	306	8	74.0	1.42	0.36	333	3.45
LINK_748	188	8	15.0	0.81	0.19	275	3.49
LINK_749	256	8	15.0	0.73	0.20	240	3.49
LINK_750	199	8	24.0	0.86	0.25	250	3.49
LINK_751	369	8	37.0	0.92	0.30	242	3.48
LINK_752	303	8	47.0	0.78	0.41	171	3.47
LINK_753	252	8	58.0	0.99	0.40	217	3.46
LINK_754	287	8	66.0	1.33	0.35	319	3.46
LINK_755	114	8	69.0	0.97	0.46	197	3.46
LINK_756	175	8	77.0	1.77	0.31	450	3.45
LINK_757	206	8	81.0	0.96	0.53	182	3.45
LINK_758	300	8	92.0	1.48	0.42	320	3.44
LINK_759	203	8	12.0	0.77	0.17	280	3.49
LINK_760	324	8	23.0	0.67	0.28	184	3.49
LINK_761	227	8	35.0	1.00	0.28	272	3.48
LINK_762	262	8	39.0	0.81	0.34	196	3.48
LINK_763	276	8	46.0	1.95	0.22	603	3.47
LINK_764	429	8	23.0	0.87	0.24	257	3.49
LINK_765	536	8	35.0	0.80	0.31	203	3.48
LINK_766	323	8	43.0	1.82	0.23	558	3.47
LINK_767	324	8	60.0	1.66	0.28	447	3.46
LINK_768	310	8	60.0	1.25	0.34	304	3.46
LINK_769	654	8	78.0	1.12	0.45	233	3.45
LINK_770	685	8	95.0	2.21	0.31	563	3.44
LINK_771	330	8	103.0	1.59	0.43	338	3.43
LINK_772	324	8	111.0	1.49	0.48	299	3.43
LINK_773	272	8	13.0	1.07	0.15	412	3.49
LINK_774	356	8	19.0	0.88	0.21	284	3.49
LINK_775	656	8	37.0	0.92	0.30	238	3.48
LINK_776	695	8	56.0	0.93	0.41	204	3.46
LINK_777	338	8	66.0	1.33	0.35	318	3.46
LINK_778	309	8	74.0	1.15	0.43	243	3.45
LINK_779	634	8	19.0	0.77	0.23	236	3.49
LINK_780	314	8	30.0	1.05	0.25	302	3.48
LINK_781	352	8	37.0	0.99	0.29	266	3.48
LINK_782	701	8	56.0	1.02	0.38	232	3.46
LINK_783	316	8	67.0	1.25	0.37	292	3.46
LINK_784	321	8	74.0	1.52	0.34	368	3.45



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 17

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_785	627	8	20.0	0.88	0.22	275	3.49
LINK_786	319	8	32.0	1.11	0.26	318	3.48
LINK_787	369	8	40.0	0.99	0.30	258	3.47
LINK_788	683	8	60.0	0.92	0.43	195	3.46
LINK_789	336	8	71.0	1.26	0.39	284	3.45
LINK_790	303	8	79.0	1.33	0.40	291	3.45
LINK_791	355	8	76.0	1.40	0.38	319	3.45
LINK_792	577	8	19.0	0.84	0.22	262	3.49
LINK_793	648	8	38.0	0.84	0.33	209	3.48
LINK_794	439	8	58.0	1.19	0.34	288	3.46
LINK_795	552	8	67.0	1.08	0.42	234	3.46
LINK_796	217	8	11.0	0.84	0.16	313	3.49
LINK_797	370	8	19.0	0.74	0.24	221	3.49
LINK_798	660	8	38.0	0.87	0.31	223	3.48
LINK_799	386	8	49.0	1.21	0.30	317	3.47
LINK_800	591	8	56.0	0.98	0.40	217	3.46
LINK_801	370	8	75.0	1.69	0.32	428	3.45
LINK_802	452	8	18.0	0.90	0.20	293	3.49
LINK_803	527	8	31.0	1.00	0.26	282	3.48
LINK_804	611	8	43.0	1.02	0.31	263	3.47
LINK_805	345	8	54.0	1.36	0.30	358	3.47
LINK_806	229	8	169.0	1.59	0.65	271	3.36
LINK_807	225	8	9.0	0.80	0.15	312	3.49
LINK_808	498	8	16.0	0.91	0.19	312	3.49
LINK_809	305	8	9.0	0.73	0.15	284	3.49
LINK_810	292	8	14.0	0.81	0.18	283	3.49
LINK_811	351	8	11.0	0.82	0.16	307	3.49
LINK_812	272	8	18.0	0.93	0.20	304	3.49
LINK_813	237	8	8.0	0.78	0.14	320	3.50
LINK_814	286	8	13.0	0.80	0.18	282	3.49
LINK_815	311	8	15.0	0.79	0.20	262	3.49
LINK_816	295	8	23.0	0.95	0.23	290	3.49
LINK_817	296	8	43.0	1.04	0.31	268	3.47
LINK_818	314	8	61.0	1.20	0.35	286	3.46
LINK_819	192	8	94.0	1.62	0.40	357	3.44
LINK_820	294	8	10.0	0.71	0.16	263	3.49
LINK_821	331	8	19.0	0.77	0.23	237	3.49
LINK_822	271	8	11.0	0.70	0.17	254	3.49
LINK_823	342	8	19.0	0.77	0.23	233	3.49
LINK_824	199	8	38.0	0.96	0.30	253	3.48
LINK_825	127	8	4.0	0.44	0.12	199	3.50
LINK_826	323	8	8.0	0.45	0.18	157	3.50
LINK_827	180	8	10.0	0.66	0.17	236	3.49
LINK_828	158	8	51.0	0.87	0.40	193	3.47
LINK_829	250	8	54.0	1.14	0.34	277	3.47
LINK_830	275	8	58.0	0.95	0.41	205	3.46
LINK_831	514	8	64.0	1.14	0.39	257	3.46
LINK_832	150	8	68.0	1.22	0.38	277	3.46
LINK_833	319	8	162.0	1.40	0.70	232	3.38



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 18

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_834	118	8	165.0	1.21	0.81	187	3.37
LINK_835	459	8	13.0	0.84	0.17	308	3.49
LINK_836	264	8	21.0	1.13	0.19	381	3.49
LINK_837	313	8	29.0	1.16	0.24	348	3.48
LINK_838	241	8	35.0	1.33	0.24	396	3.48
LINK_839	445	8	13.0	0.79	0.18	281	3.49
LINK_840	540	8	27.0	1.10	0.23	337	3.48
LINK_841	294	8	35.0	1.06	0.27	292	3.48
LINK_842	434	8	12.0	0.70	0.19	241	3.49
LINK_843	327	8	24.0	0.91	0.24	271	3.49
LINK_844	286	8	32.0	0.96	0.27	267	3.48
LINK_845	232	8	36.0	1.09	0.27	303	3.48
LINK_846	296	8	36.0	1.00	0.28	272	3.48
LINK_847	332	8	71.0	1.11	0.43	237	3.45
LINK_848	701	8	105.0	1.59	0.43	335	3.43
LINK_849	420	8	107.0	1.26	0.53	239	3.43
LINK_850	220	8	126.0	1.44	0.54	269	3.42
LINK_851	131	8	44.0	1.09	0.30	285	3.47
LINK_852	556	8	27.0	0.76	0.28	207	3.48
LINK_853	278	8	44.0	0.82	0.37	190	3.47
LINK_854	219	8	44.0	1.12	0.30	294	3.47
LINK_855	551	8	0.0	0.20	0.00	0	3.50
LINK_856	309	8	0.0	0.20	0.00	264	3.50
LINK_857	64	8	44.0	0.51	0.54	96	3.47
LINK_858	72	8	44.0	1.89	0.22	587	3.47
LINK_859	334	8	9.0	0.72	0.15	277	3.49
LINK_860	552	8	28.0	1.60	0.18	554	3.48
LINK_861	284	8	11.0	0.99	0.14	396	3.49
LINK_862	381	8	25.0	0.79	0.27	223	3.48
LINK_863	503	8	21.0	0.78	0.25	226	3.49
LINK_864	49	8	21.0	3.11	0.10	1522	3.49
LINK_865	429	8	8.0	1.07	0.11	500	3.50
LINK_866	180	8	14.0	0.90	0.17	319	3.49
LINK_867	190	8	14.0	1.10	0.16	417	3.49
LINK_868	308	8	7.0	0.69	0.13	294	3.50
LINK_869	287	8	17.0	0.81	0.21	263	3.49
LINK_870	117	8	17.0	0.76	0.21	241	3.49
LINK_871	351	8	24.0	0.92	0.24	272	3.49
LINK_872	269	8	34.0	1.71	0.20	560	3.48
LINK_873	528	8	14.0	0.81	0.18	283	3.49
LINK_874	175	8	16.0	0.73	0.21	232	3.49
LINK_875	253	8	23.0	0.97	0.22	298	3.49
LINK_876	360	8	32.0	1.57	0.21	509	3.48
LINK_877	64	8	5.0	0.56	0.12	245	3.50
LINK_878	343	8	13.0	1.23	0.13	511	3.49
LINK_879	182	8	13.0	0.20	0.00	0	3.49
LINK_880	267	8	17.0	0.98	0.18	339	3.49
LINK_881	342	8	22.0	1.49	0.17	543	3.49
LINK_882	448	8	21.0	0.87	0.22	269	3.49





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 19

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_883	485	8	33.0	0.91	0.28	247	3.48
LINK_884	237	8	38.0	0.86	0.32	218	3.48
LINK_885	274	8	38.0	1.23	0.26	346	3.48
LINK_886	199	8	50.0	1.17	0.31	298	3.47
LINK_887	299	8	86.0	1.31	0.43	276	3.44
LINK_888	344	8	92.0	1.67	0.38	382	3.44
LINK_889	266	8	41.0	1.19	0.28	325	3.47
LINK_890	441	8	64.0	1.04	0.42	224	3.46
LINK_891	70	8	154.0	1.72	0.55	318	3.40
LINK_892	324	8	157.0	1.40	0.68	234	3.39
LINK_893	286	8	166.0	1.43	0.70	236	3.37
LINK_894	333	8	21.0	0.80	0.24	240	3.49
LINK_895	179	8	35.0	1.21	0.25	347	3.48
LINK_896	254	8	74.0	1.53	0.34	372	3.45
LINK_897	468	8	74.0	1.51	0.35	363	3.45
LINK_898	325	8	15.0	1.25	0.15	492	3.49
LINK_899	286	8	29.0	1.32	0.22	417	3.48
LINK_900	407	6	13.0	0.65	0.28	101	3.49
LINK_901	450	8	7.0	0.63	0.15	246	3.50
LINK_902	446	8	16.0	0.67	0.23	204	3.49
LINK_903	574	8	32.0	0.94	0.28	259	3.48
LINK_904	208	6	5.0	0.73	0.15	156	3.50
LINK_905	332	8	7.0	0.71	0.13	292	3.50
LINK_906	493	8	27.0	0.80	0.27	222	3.48
LINK_907	456	8	49.0	0.97	0.35	233	3.47
LINK_908	477	8	56.0	1.14	0.35	276	3.46
LINK_909	346	8	8.0	1.18	0.10	583	3.50
LINK_910	193	8	331.0	2.11	1.00	55	3.06
LINK_911	201	8	348.0	2.22	1.00	307	3.05
LINK_912	369	8	393.0	2.51	1.00	251	3.01
LINK_913	189	8	416.0	2.66	1.00	177	2.99
LINK_914	159	8	473.0	3.02	1.00	299	2.94
LINK_915	126	8	0.0	0.20	0.00	256	3.50
LINK_916	184	8	4.0	0.54	0.11	257	3.50
LINK_917	482	8	16.0	0.76	0.21	245	3.49
LINK_918	467	8	28.0	0.87	0.27	241	3.48
LINK_919	564	8	46.0	0.89	0.36	207	3.47
LINK_920	221	8	10.0	0.76	0.15	288	3.49
LINK_921	351	8	9.0	0.66	0.16	251	3.49
LINK_922	533	8	23.0	0.82	0.25	237	3.49
LINK_923	623	8	42.0	0.94	0.32	236	3.47
LINK_924	327	8	33.0	1.05	0.26	296	3.48
LINK_925	298	8	62.0	1.32	0.33	326	3.46
LINK_926	383	8	13.0	0.55	0.23	169	3.49
LINK_927	675	8	32.0	0.63	0.35	151	3.48
LINK_928	448	8	71.0	0.83	0.53	156	3.45
LINK_929	459	8	84.0	1.00	0.53	190	3.45
LINK_930	316	8	9.0	0.75	0.15	295	3.49
LINK_931	315	8	20.0	0.60	0.27	168	3.49





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 20

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_932	211	8	105.0	1.41	0.48	282	3.43
LINK_933	227	8	110.0	1.20	0.57	219	3.43
LINK_934	360	8	168.0	1.34	0.75	214	3.37
LINK_935	376	8	177.0	1.48	0.72	241	3.35
LINK_936	366	8	222.0	1.42	1.00	203	3.24
LINK_937	376	8	272.0	1.74	1.00	221	3.12
LINK_938	538	8	13.0	1.08	0.15	425	3.49
LINK_939	573	8	25.0	1.40	0.19	479	3.48
LINK_940	206	8	151.0	1.62	0.57	293	3.40
LINK_941	227	15	151.0	1.07	0.30	983	3.40
LINK_942	227	8	8.0	1.54	0.08	889	3.50
LINK_943	406	8	7.0	0.63	0.14	256	3.50
LINK_944	305	8	10.0	0.75	0.16	278	3.49
LINK_945	330	8	24.0	0.92	0.24	274	3.49
LINK_946	243	8	31.0	2.41	0.16	916	3.48
LINK_947	345	8	14.0	0.86	0.18	301	3.49
LINK_948	306	8	22.0	2.19	0.13	912	3.49
LINK_949	262	8	0.0	0.20	0.00	329	3.50
LINK_950	154	8	0.0	0.20	0.00	399	3.50
LINK_951	409	8	9.0	0.60	0.16	223	3.50
LINK_952	182	8	63.0	1.11	0.39	248	3.46
LINK_953	451	8	123.0	1.50	0.52	288	3.42
LINK_954	472	8	179.0	1.71	0.64	295	3.34
LINK_955	443	8	196.0	1.86	0.64	319	3.30
LINK_956	222	8	210.0	1.85	0.69	307	3.27
LINK_957	313	8	221.0	1.41	1.00	219	3.25
LINK_958	344	8	225.0	1.99	0.68	332	3.24
LINK_959	250	8	5.0	1.03	0.08	591	3.50
LINK_960	267	8	5.0	1.04	0.08	598	3.50
LINK_961	69	8	11.0	0.20	0.00	0	3.49
LINK_962	357	8	14.0	0.74	0.19	247	3.49
LINK_963	354	8	21.0	0.84	0.23	255	3.49
LINK_964	257	8	26.0	0.44	0.40	96	3.48
LINK_965	318	8	41.0	2.33	0.19	798	3.47
LINK_966	398	10	69.0	1.35	0.27	587	3.46
LINK_967	453	10	69.0	1.33	0.27	576	3.46
LINK_968	436	10	69.0	1.36	0.27	595	3.46
LINK_969	473	10	69.0	1.41	0.26	623	3.46
LINK_970	445	8	0.0	0.20	0.00	217	3.50
LINK_971	578	8	0.0	0.20	0.00	474	3.50
LINK_972	376	8	12.0	0.79	0.17	284	3.49
LINK_973	416	8	31.0	0.89	0.28	241	3.48
LINK_974	379	8	49.0	1.23	0.30	323	3.47
LINK_975	293	8	49.0	1.14	0.31	293	3.47
LINK_976	469	8	70.0	2.07	0.27	571	3.46
LINK_977	415	8	11.0	0.70	0.17	253	3.49
LINK_978	458	8	27.0	0.91	0.26	260	3.48
LINK_979	469	8	42.0	1.03	0.30	268	3.47
LINK_980	590	8	62.0	1.88	0.27	521	3.46



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 21

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_981	192	8	5.0	0.74	0.11	355	3.50
LINK_982	312	8	19.0	0.83	0.22	259	3.49
LINK_983	394	8	26.0	1.12	0.22	346	3.48
LINK_984	466	8	40.0	0.84	0.34	205	3.47
LINK_985	576	8	61.0	1.92	0.27	540	3.46
LINK_986	483	8	19.0	0.94	0.20	307	3.49
LINK_987	403	8	26.0	0.96	0.25	280	3.48
LINK_988	467	8	40.0	1.03	0.29	273	3.47
LINK_989	586	8	61.0	1.99	0.26	563	3.46
LINK_990	487	8	19.0	0.90	0.21	288	3.49
LINK_991	407	8	28.0	0.97	0.26	277	3.48
LINK_992	449	8	40.0	1.01	0.30	264	3.47
LINK_993	592	8	61.0	1.97	0.26	558	3.46
LINK_994	334	8	27.0	0.62	0.32	157	3.48
LINK_995	398	8	38.0	1.04	0.28	280	3.48
LINK_996	472	8	55.0	1.11	0.35	267	3.47
LINK_997	582	8	75.0	1.15	0.43	244	3.45
LINK_998	536	8	77.0	1.22	0.42	260	3.45
LINK_999	271	8	5.0	0.92	0.09	493	3.50
LINK_1000	252	8	5.0	0.96	0.09	532	3.50
LINK_1001	66	8	11.0	1.73	0.10	895	3.49
LINK_1002	332	8	108.0	1.18	0.56	217	3.43
LINK_1003	366	8	117.0	1.22	0.59	218	3.42
LINK_1004	506	8	134.0	1.27	0.64	217	3.41
LINK_1005	110	8	134.0	2.50	0.37	577	3.41
LINK_1006	304	8	139.0	0.20	0.00	0	3.41
LINK_1007	318	8	154.0	3.01	0.36	712	3.40
LINK_1008	194	8	0.0	0.20	0.00	244	3.50
LINK_1009	372	8	8.0	0.72	0.14	286	3.50
LINK_1010	465	8	8.0	0.62	0.16	231	3.50
LINK_1011	257	8	2.0	0.59	0.04	677	3.50
LINK_1012	315	8	11.0	1.12	0.13	474	3.49
LINK_1013	314	8	19.0	0.94	0.20	307	3.49
LINK_1014	391	8	31.0	0.98	0.27	273	3.48
LINK_1015	276	8	38.0	0.99	0.29	262	3.48
LINK_1016	329	8	52.0	1.16	0.32	292	3.47
LINK_1017	325	8	58.0	1.44	0.30	375	3.46
LINK_1018	619	8	75.0	1.36	0.38	308	3.45
LINK_1019	281	8	12.0	0.94	0.16	355	3.49
LINK_1020	354	8	20.0	1.01	0.20	331	3.49
LINK_1021	668	8	41.0	0.97	0.31	249	3.47
LINK_1022	387	8	54.0	1.58	0.28	432	3.47
LINK_1023	266	8	61.0	0.98	0.42	211	3.46
LINK_1024	499	8	77.0	1.36	0.39	305	3.45
LINK_1025	363	8	172.0	1.39	0.74	223	3.36
LINK_1026	455	8	173.0	1.21	0.85	185	3.36
LINK_1027	338	8	31.0	1.12	0.25	327	3.48
LINK_1028	321	8	31.0	1.14	0.25	332	3.48
LINK_1029	288	8	51.0	1.20	0.31	306	3.47



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 22

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1030	237	8	62.0	1.04	0.41	226	3.46
LINK_1031	168	8	225.0	1.71	0.78	268	3.24
LINK_1032	330	8	250.0	1.76	0.84	269	3.18
LINK_1033	313	8	262.0	2.48	0.64	427	3.14
LINK_1034	299	8	8.0	0.92	0.12	409	3.50
LINK_1035	442	8	33.0	1.10	0.26	313	3.48
LINK_1036	379	8	52.0	1.12	0.33	279	3.47
LINK_1037	339	8	66.0	1.15	0.39	256	3.46
LINK_1038	170	8	66.0	1.25	0.37	292	3.46
LINK_1039	609	8	84.0	1.07	0.50	210	3.45
LINK_1040	358	8	95.0	1.35	0.46	279	3.44
LINK_1041	320	8	103.0	1.49	0.45	308	3.43
LINK_1042	421	8	45.0	1.06	0.31	270	3.47
LINK_1043	418	8	81.0	1.20	0.45	249	3.45
LINK_1044	315	8	103.0	1.24	0.52	237	3.43
LINK_1045	222	8	103.0	1.51	0.45	314	3.43
LINK_1046	607	8	143.0	1.13	0.76	179	3.41
LINK_1047	371	8	167.0	1.49	0.67	251	3.37
LINK_1048	312	8	183.0	1.77	0.63	306	3.33
LINK_1049	381	8	183.0	1.47	0.75	235	3.33
LINK_1050	337	12	261.0	1.55	0.48	698	3.15
LINK_1051	220	6	2.0	0.48	0.12	120	3.50
LINK_1052	425	6	7.0	0.71	0.18	138	3.50
LINK_1053	415	6	27.0	1.08	0.32	152	3.48
LINK_1054	400	6	37.0	1.30	0.35	174	3.48
LINK_1055	346	6	50.0	1.09	0.52	117	3.47
LINK_1056	80	6	57.0	1.40	0.47	160	3.46
LINK_1057	103	6	57.0	1.41	0.47	161	3.46
LINK_1058	553	6	0.0	0.20	0.00	101	3.50
LINK_1059	480	6	0.0	0.20	0.00	101	3.50
LINK_1060	508	8	76.0	1.13	0.44	237	3.45
LINK_1061	395	8	86.0	1.27	0.44	265	3.45
LINK_1062	369	8	95.0	1.31	0.47	265	3.44
LINK_1063	470	8	107.0	1.37	0.50	268	3.43
LINK_1064	249	8	126.0	1.20	0.64	207	3.42
LINK_1065	204	8	126.0	1.06	0.71	174	3.42
LINK_1066	88	8	126.0	1.21	0.63	209	3.42
LINK_1067	100	8	126.0	1.88	0.44	396	3.42
LINK_1068	322	10	211.0	1.71	0.50	521	3.27
LINK_1069	336	8	63.0	1.05	0.41	230	3.46
LINK_1070	334	8	54.0	1.16	0.33	288	3.47
LINK_1071	612	8	44.0	0.91	0.34	223	3.47
LINK_1072	167	8	26.0	1.04	0.23	318	3.48
LINK_1073	409	8	26.0	0.79	0.27	220	3.48
LINK_1074	406	8	20.0	0.82	0.23	252	3.49
LINK_1075	420	8	16.0	0.76	0.21	245	3.49
LINK_1076	277	8	5.0	0.54	0.12	244	3.50
LINK_1077	287	8	2.0	0.27	0.09	143	3.50
LINK_1078	413	8	90.0	1.31	0.45	271	3.44





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_ERUN1

10/07/94  
 PAGE 23

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1079	179	8	77.0	0.20	0.00	0	3.45
LINK_1080	250	8	63.0	1.22	0.36	288	3.46
LINK_1081	185	8	59.0	0.86	0.45	179	3.46
LINK_1082	307	8	57.0	1.16	0.34	281	3.46
LINK_1083	224	8	53.0	1.15	0.33	288	3.47
LINK_1084	334	8	44.0	1.03	0.31	263	3.47
LINK_1085	278	8	44.0	1.08	0.30	280	3.47
LINK_1086	199	8	26.0	0.90	0.25	258	3.48
LINK_1087	201	8	32.0	0.80	0.30	210	3.48
LINK_1088	64	8	0.0	0.20	0.00	372	3.50
LINK_1089	485	8	293.0	1.87	1.00	230	3.09
LINK_1090	534	8	336.0	2.15	1.00	212	3.06
LINK_1091	224	8	336.0	2.15	1.00	244	3.06
LINK_1092	262	8	336.0	2.15	1.00	196	3.06
LINK_1093	90	8	336.0	3.51	0.59	630	3.06
LINK_1094	125	8	336.0	2.15	1.00	248	3.06
LINK_1095	314	8	9.0	0.74	0.15	286	3.49
LINK_1096	261	8	15.0	0.94	0.17	336	3.49
LINK_1097	375	8	33.0	1.01	0.27	282	3.48
LINK_1098	259	8	39.0	1.19	0.27	331	3.48
LINK_1099	259	8	44.0	1.14	0.29	302	3.47
LINK_1100	277	8	61.0	1.25	0.34	301	3.46
LINK_1101	167	8	4.0	0.94	0.08	580	3.50
LINK_1102	453	8	15.0	1.02	0.17	373	3.49
LINK_1103	208	8	7.0	1.02	0.10	501	3.50
LINK_1104	401	8	15.0	0.92	0.18	322	3.49
LINK_1105	213	8	29.0	1.16	0.23	353	3.48
LINK_1106	378	8	22.0	0.91	0.23	281	3.49
LINK_1107	352	8	14.0	0.85	0.17	304	3.49
LINK_1108	327	8	8.0	0.74	0.13	309	3.50
LINK_1109	271	8	7.0	0.74	0.13	310	3.50
LINK_1110	259	8	4.0	0.62	0.10	313	3.50
LINK_1111	361	8	13.0	0.85	0.17	308	3.49
LINK_1112	312	8	16.0	0.93	0.19	317	3.49
LINK_1113	349	8	27.0	1.15	0.22	358	3.48
LINK_1114	217	8	31.0	1.32	0.23	406	3.48
LINK_1115	272	12	373.0	1.56	0.65	599	3.03
LINK_1116	287	12	408.0	1.98	0.57	814	3.00
LINK_1117	296	12	557.0	2.44	0.62	959	2.89
LINK_1118	339	12	551.0	1.91	0.77	680	2.89
LINK_1119	230	8	120.0	1.67	0.46	342	3.42
LINK_1120	359	8	113.0	1.51	0.48	301	3.43
LINK_1121	268	8	105.0	1.56	0.44	327	3.43
LINK_1122	385	8	103.0	1.30	0.50	254	3.43
LINK_1123	302	8	9.0	0.64	0.16	240	3.49
LINK_1124	278	8	11.0	0.69	0.18	244	3.49
LINK_1125	305	8	20.0	0.81	0.23	247	3.49
LINK_1126	277	8	20.0	0.81	0.23	249	3.49
LINK_1127	42	8	20.0	1.10	0.19	375	3.49



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_ERUN1

10/07/94  
 PAGE 24

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1128	36	8	28.0	1.28	0.21	405	3.48
LINK_1129	286	8	21.0	0.82	0.24	245	3.49
LINK_1130	537	8	21.0	0.79	0.24	233	3.49
LINK_1131	261	8	9.0	0.65	0.16	243	3.49
LINK_1132	503	8	10.0	0.64	0.18	227	3.49
LINK_1133	164	8	13.0	0.73	0.18	255	3.49
LINK_1134	95	8	13.0	0.95	0.16	357	3.49
LINK_1135	665	14	506.0	1.65	0.61	884	2.91
LINK_1136	438	14	520.0	1.91	0.55	1090	2.90
LINK_1137	545	14	523.0	1.62	0.64	854	2.90
LINK_1138	335	14	528.0	1.96	0.55	1121	2.90
LINK_1139	162	14	534.0	2.22	0.50	1330	2.89
LINK_1140	302	14	751.0	1.57	1.00	311	2.80
LINK_1141	248	14	751.0	2.14	0.69	1086	2.80
LINK_1142	40	8	178.0	2.39	0.48	478	3.34
LINK_1143	33	8	334.0	2.13	1.00	328	3.06
LINK_1144	424	8	39.0	0.86	0.32	216	3.48
LINK_1145	219	8	77.0	1.40	0.38	318	3.45
LINK_1146	334	8	77.0	1.11	0.45	230	3.45
LINK_1147	144	8	77.0	1.00	0.49	197	3.45
LINK_1148	329	8	3.0	0.50	0.10	243	3.50
LINK_1149	340	8	7.0	0.62	0.15	239	3.50
LINK_1150	170	8	4.0	0.73	0.09	406	3.50
LINK_1151	377	12	92.0	0.92	0.32	522	3.44
LINK_1152	362	12	100.0	0.96	0.33	533	3.44
LINK_1153	323	8	8.0	0.91	0.12	406	3.50
LINK_1154	378	8	5.0	0.75	0.10	364	3.50
LINK_1155	408	8	9.0	0.59	0.17	215	3.49
LINK_1156	417	8	21.0	0.95	0.21	301	3.49
LINK_1157	178	12	334.0	1.71	0.54	721	3.06
LINK_1158	606	12	334.0	1.69	0.54	713	3.06
LINK_1159	256	12	262.0	2.01	0.40	1002	3.14
LINK_1160	242	12	225.0	1.55	0.43	743	3.24
LINK_1161	270	12	192.0	1.44	0.40	710	3.31
LINK_1162	279	12	165.0	1.38	0.37	718	3.37
LINK_1163	240	8	61.0	1.29	0.33	318	3.46
LINK_1164	354	8	10.0	0.68	0.16	252	3.49
LINK_1165	474	8	18.0	0.67	0.25	197	3.49
LINK_1166	351	12	85.0	1.06	0.28	646	3.45
LINK_1167	417	12	97.0	1.09	0.30	642	3.44
LINK_1168	467	12	119.0	1.15	0.33	638	3.42
LINK_1169	344	12	132.0	1.31	0.32	738	3.41
LINK_1170	365	12	136.0	1.18	0.36	628	3.41
LINK_1171	232	8	11.0	0.68	0.17	245	3.49
LINK_1172	393	8	25.0	0.83	0.26	236	3.48
LINK_1173	305	8	65.0	1.12	0.40	249	3.46
LINK_1174	302	8	65.0	1.10	0.40	242	3.46
LINK_1175	330	8	41.0	1.41	0.26	403	3.47
LINK_1176	330	8	33.0	0.93	0.28	254	3.48



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 25

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1177	386	8	52.0	1.00	0.36	235	3.47
LINK_1178	646	12	340.0	1.76	0.54	749	3.05
LINK_1179	183	12	931.0	2.64	1.00	795	2.76
LINK_1180	245	12	931.0	2.89	0.85	993	2.76
LINK_1181	433	12	837.0	2.62	0.84	905	2.78
LINK_1182	894	12	808.0	2.55	0.84	881	2.79
LINK_1183	323	12	499.0	1.96	0.68	735	2.92
LINK_1184	257	12	499.0	2.07	0.65	793	2.92
LINK_1185	318	12	424.0	1.93	0.60	768	2.98
LINK_1186	311	12	424.0	1.81	0.63	704	2.98
LINK_1187	314	12	424.0	1.85	0.62	724	2.98
LINK_1188	267	12	424.0	2.72	0.45	1264	2.98
LINK_1189	354	8	0.0	0.20	0.00	578	3.50
LINK_1190	262	8	231.0	1.79	0.77	283	3.22
LINK_1191	323	8	231.0	1.64	0.84	251	3.22
LINK_1192	383	12	231.0	1.60	0.43	768	3.22
LINK_1193	382	12	231.0	1.63	0.42	787	3.22
LINK_1194	346	12	231.0	1.71	0.41	840	3.22
LINK_1195	86	8	231.0	2.15	0.65	366	3.22
LINK_1196	380	12	153.0	0.94	0.47	427	3.40
LINK_1197	316	12	153.0	1.18	0.39	591	3.40
LINK_1198	341	12	153.0	1.18	0.40	589	3.40
LINK_1199	336	12	153.0	1.15	0.40	567	3.40
LINK_1200	347	12	153.0	1.01	0.44	479	3.40
LINK_1201	345	12	153.0	1.18	0.39	592	3.40
LINK_1202	379	12	153.0	1.13	0.41	552	3.40
LINK_1203	389	6	0.0	0.20	0.00	114	3.50
LINK_1204	555	6	0.0	0.20	0.00	113	3.50
LINK_1205	637	6	10.0	0.68	0.24	113	3.49
LINK_1206	589	6	10.0	0.68	0.24	112	3.49
LINK_1207	523	6	10.0	0.68	0.24	113	3.49
LINK_1208	149	8	10.0	0.70	0.17	256	3.49
LINK_1209	333	8	10.0	0.67	0.17	244	3.49
LINK_1210	411	8	10.0	0.67	0.17	243	3.49
LINK_1211	311	8	10.0	0.67	0.17	243	3.49
LINK_1212	338	8	10.0	0.67	0.17	244	3.49
LINK_1213	415	8	10.0	0.67	0.17	243	3.49
LINK_1214	171	6	23.0	0.83	0.34	113	3.49
LINK_1215	520	6	38.0	0.61	0.67	58	3.48
LINK_1216	523	6	38.0	0.92	0.48	104	3.48
LINK_1217	447	6	38.0	1.00	0.45	117	3.48
LINK_1218	222	6	38.0	0.60	0.68	56	3.48
LINK_1219	599	8	38.0	0.84	0.32	211	3.48
LINK_1220	387	8	38.0	0.82	0.33	203	3.48
LINK_1221	316	8	38.0	0.79	0.34	193	3.48
LINK_1222	225	8	38.0	1.28	0.26	364	3.48
LINK_1223	422	8	49.0	0.95	0.36	223	3.47
LINK_1224	449	8	49.0	0.76	0.43	162	3.47
LINK_1225	202	8	124.0	1.49	0.53	284	3.42





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 26

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1226	361	8	124.0	1.39	0.55	257	3.42
LINK_1227	377	8	136.0	0.87	1.00	105	3.41
LINK_1228	492	8	151.0	1.36	0.67	229	3.40
LINK_1229	230	10	53.0	1.05	0.27	455	3.47
LINK_1230	434	10	62.0	0.79	0.35	292	3.46
LINK_1231	471	10	62.0	0.93	0.31	372	3.46
LINK_1232	56	15	1596.0	2.90	1.00	388	2.63
LINK_1233	156	15	1596.0	2.90	1.00	901	2.63
LINK_1234	198	15	1590.0	2.89	1.00	990	2.63
LINK_1235	154	15	1559.0	2.83	1.00	994	2.64
LINK_1236	199	15	1544.0	2.80	1.00	1366	2.64
LINK_1237	188	15	1517.0	2.75	1.00	994	2.64
LINK_1238	167	15	1456.0	2.64	1.00	927	2.66
LINK_1239	206	15	1420.0	2.58	1.00	1163	2.66
LINK_1240	195	15	1369.0	2.49	1.00	998	2.67
LINK_1241	365	15	1314.0	2.39	1.00	997	2.68
LINK_1242	354	15	1255.0	2.28	1.00	977	2.69
LINK_1243	358	15	1176.0	2.14	1.00	1139	2.71
LINK_1244	361	15	997.0	1.81	1.00	991	2.75
LINK_1245	222	15	952.0	2.40	0.68	1406	2.76
LINK_1246	144	15	905.0	2.55	0.61	1569	2.77
LINK_1247	242	15	895.0	1.63	1.00	699	2.77
LINK_1248	107	15	851.0	1.89	0.77	1051	2.78
LINK_1249	289	15	832.0	1.88	0.75	1054	2.78
LINK_1250	104	15	832.0	2.22	0.65	1337	2.78
LINK_1251	4831	24	8597.0	6.10	0.00	0	2.09
LINK_1252	0	**	8219.0	0.00	0.00	0	2.12
LINK_1253	135	8	4.0	0.51	0.11	239	3.50
LINK_1254	410	8	12.0	0.69	0.18	242	3.49
LINK_1255	300	8	5.0	0.55	0.12	241	3.50
LINK_1256	305	8	12.0	0.70	0.19	241	3.49
LINK_1257	255	8	2.0	0.40	0.09	218	3.50
LINK_1258	120	8	3.0	0.42	0.11	198	3.50
LINK_1259	315	8	8.0	0.55	0.16	205	3.50
LINK_1260	269	8	15.0	0.70	0.21	225	3.49
LINK_1261	224	12	935.0	2.65	1.00	442	2.76
LINK_1262	49	12	65.0	4.38	0.10	4878	3.46
LINK_1263	138	27	8193.0	4.59	1.00	6388	2.12
LINK_1264	45	8	789.0	0.20	0.00	0	2.79
LINK_1265	45	8	52.0	4.42	0.15	1724	3.47
LINK_1266	0	0	217.0	0.00	0.00	0	3.26
LINK_1267	43	8	47.0	1.76	0.24	518	3.47
LINK_1268	43	8	40.0	2.65	0.17	963	3.47
LINK_1269	44	8	62.0	2.49	0.23	755	3.46
LINK_1270	43	8	52.0	2.86	0.19	974	3.47
LINK_1271	43	8	45.0	4.37	0.13	1825	3.47
LINK_1272	59	8	56.0	2.88	0.20	952	3.46
LINK_1273	62	8	50.0	2.78	0.19	944	3.47
LINK_1274	62	8	76.0	3.09	0.23	944	3.45





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 27

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1275	55	8	76.0	3.46	0.21	1097	3.45
LINK_1276	46	8	61.0	3.90	0.17	1400	3.46
LINK_1277	45	8	64.0	4.15	0.17	1496	3.46
LINK_1278	45	8	60.0	4.28	0.16	1594	3.46
LINK_1279	0	0	219.0	0.00	0.00	0	3.25
LINK_1280	0	0	190.0	0.00	0.00	0	3.32
LINK_1281	0	0	197.0	0.00	0.00	0	3.30
LINK_1282	0	0	239.0	0.00	0.00	0	3.20
LINK_1283	0	0	212.0	0.00	0.00	0	3.27
LINK_1284	0	0	256.0	0.00	0.00	0	3.16
LINK_1285	0	0	234.0	0.00	0.00	0	3.21
LINK_1286	0	0	235.0	0.00	0.00	0	3.21
LINK_1287	0	0	236.0	0.00	0.00	0	3.21
LINK_1288	0	0	194.0	0.00	0.00	0	3.31
LINK_1289	0	0	203.0	0.00	0.00	0	3.29
LINK_1290	0	0	190.0	0.00	0.00	0	3.32
LINK_1291	0	0	169.0	0.00	0.00	0	3.36
LINK_1292	0	0	278.0	0.00	0.00	0	3.10
LINK_1293	0	**	231.0	0.00	0.00	0	3.22
LINK_1294	430	4	244.0	6.24	0.00	0	3.19
LINK_1295	0	**	213.0	0.00	0.00	0	3.26
LINK_1296	2886	8	231.0	1.48	0.00	0	3.22
LINK_1297	0	**	334.0	0.00	0.00	0	3.06
LINK_1298	259	4	408.0	10.42	0.00	0	3.00
LINK_1299	190	8	5.0	0.53	0.13	227	3.50
LINK_1300	305	8	14.0	0.66	0.21	211	3.49
LINK_1301	280	8	25.0	0.78	0.27	218	3.48
LINK_1302	150	12	28.0	0.75	0.18	600	3.48
LINK_1303	140	12	29.0	0.78	0.18	621	3.48
LINK_1304	260	12	47.0	0.91	0.22	644	3.47
LINK_1305	280	12	62.0	0.97	0.25	628	3.46
LINK_1306	325	12	79.0	1.05	0.27	653	3.45
LINK_1307	265	12	81.0	0.93	0.29	557	3.45
LINK_1308	420	8	0.0	0.20	0.00	317	3.50
LINK_1309	315	8	0.0	0.20	0.00	212	3.50
LINK_1310	355	8	0.0	0.20	0.00	309	3.50
LINK_1311	400	8	0.0	0.20	0.00	245	3.50
LINK_1312	423	8	0.0	0.20	0.00	205	3.50
LINK_1313	340	8	0.0	0.20	0.00	290	3.50
LINK_1314	538	6	0.0	0.20	0.00	98	3.50
LINK_1315	797	6	0.0	0.20	0.00	98	3.50
LINK_1316	1039	6	0.0	0.20	0.00	98	3.50
LINK_1317	1050	6	0.0	0.20	0.00	98	3.50
LINK_1318	649	6	0.0	0.20	0.00	113	3.50
LINK_1319	356	8	8.0	0.56	0.17	204	3.50
LINK_1320	328	8	16.0	0.69	0.22	214	3.49
LINK_1321	350	8	8.0	0.90	0.12	402	3.50
LINK_1322	332	8	16.0	0.69	0.22	215	3.49
LINK_1323	237	8	8.0	0.61	0.16	229	3.50



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 28

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1324	343	8	17.0	0.72	0.22	223	3.49
LINK_1325	340	8	26.0	0.80	0.27	223	3.48
LINK_1326	234	8	8.0	0.67	0.15	261	3.50
LINK_1327	350	8	16.0	0.76	0.21	245	3.49
LINK_1328	336	8	24.0	0.87	0.25	252	3.48
LINK_1329	303	12	16.0	0.68	0.14	624	3.49
LINK_1330	296	12	32.0	0.83	0.18	645	3.48
LINK_1331	296	12	58.0	0.96	0.25	632	3.46
LINK_1332	280	12	82.0	1.08	0.27	670	3.45
LINK_1333	325	12	8.0	0.62	0.09	775	3.50
LINK_1334	375	12	17.0	0.74	0.13	702	3.49
LINK_1335	349	12	25.0	0.86	0.16	728	3.48
LINK_1336	284	12	108.0	1.33	0.28	813	3.43
LINK_1337	339	12	130.0	1.21	0.34	669	3.42
LINK_1338	311	12	135.0	1.27	0.33	704	3.41
LINK_1339	229	12	135.0	1.96	0.26	1253	3.41
LINK_1340	300	8	7.0	0.66	0.14	261	3.50
LINK_1341	410	8	15.0	0.70	0.21	223	3.49
LINK_1342	300	8	7.0	0.65	0.15	255	3.50
LINK_1343	410	8	15.0	0.69	0.22	218	3.49
LINK_1344	300	8	8.0	0.65	0.15	255	3.50
LINK_1345	410	8	16.0	0.70	0.22	218	3.49
LINK_1346	282	12	0.0	0.20	0.00	721	3.50
LINK_1347	495	12	5.0	0.46	0.07	668	3.50
LINK_1348	194	12	8.0	0.57	0.10	630	3.50
LINK_1349	162	12	8.0	0.60	0.10	690	3.50
LINK_1350	169	12	32.0	0.74	0.20	551	3.48
LINK_1351	103	12	32.0	1.49	0.13	1439	3.48
LINK_1352	345	12	59.0	0.92	0.25	598	3.46
LINK_1353	410	12	74.0	1.15	0.25	742	3.45
LINK_1354	600	8	18.0	0.72	0.23	217	3.49
LINK_1355	268	8	24.0	0.77	0.26	218	3.49
LINK_1356	302	8	11.0	0.64	0.19	219	3.49
LINK_1357	301	8	16.0	0.87	0.19	294	3.49
LINK_1358	325	8	42.0	0.94	0.32	237	3.47
LINK_1359	282	8	8.0	0.58	0.16	215	3.50
LINK_1360	332	8	17.0	0.71	0.22	219	3.49
LINK_1361	332	8	27.0	0.79	0.28	217	3.48
LINK_1362	330	8	32.0	0.86	0.29	232	3.48
LINK_1363	280	8	9.0	0.59	0.16	218	3.50
LINK_1364	391	8	18.0	0.67	0.24	200	3.49
LINK_1365	272	8	29.0	0.87	0.27	240	3.48
LINK_1366	335	8	34.0	0.87	0.30	230	3.48
LINK_1367	455	8	5.0	0.51	0.13	218	3.50
LINK_1368	506	8	10.0	0.62	0.17	223	3.49
LINK_1369	320	8	16.0	0.69	0.22	215	3.49
LINK_1370	265	8	9.0	1.34	0.10	661	3.49
LINK_1371	200	8	59.0	1.09	0.37	249	3.46
LINK_1372	105	8	0.0	0.20	0.00	254	3.50



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_ERUN1

10/07/94  
PAGE 29

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1373	160	8	0.0	0.20	0.00	251	3.50
LINK_1374	215	8	27.0	0.91	0.26	259	3.48
LINK_1375	330	8	27.0	0.82	0.27	226	3.48
LINK_1376	285	8	30.0	0.89	0.27	245	3.48
LINK_1377	190	8	89.0	1.28	0.45	265	3.44
LINK_1378	215	8	89.0	1.18	0.48	234	3.44
LINK_1379	265	24	482.0	1.94	0.25	5080	2.93
LINK_1380	289	8	110.0	1.42	0.49	281	3.43
LINK_1381	318	8	76.0	1.13	0.44	236	3.45
LINK_1382	288	8	76.0	1.18	0.43	250	3.45
LINK_1383	308	8	76.0	1.17	0.43	248	3.45
LINK_1384	289	8	76.0	0.78	0.60	139	3.45
LINK_1385	293	21	91.0	1.16	0.14	3172	3.44
LINK_1386	192	8	7.0	0.60	0.14	245	3.50
LINK_1387	303	8	7.0	0.51	0.16	192	3.50
LINK_1388	305	8	67.0	1.03	0.43	220	3.46
LINK_1389	179	8	7.0	0.54	0.16	203	3.50
LINK_1390	340	8	14.0	0.69	0.20	224	3.49
LINK_1391	298	8	46.0	0.93	0.35	223	3.47
LINK_1392	176	8	8.0	0.56	0.17	205	3.50
LINK_1393	338	8	16.0	0.72	0.21	229	3.49
LINK_1394	305	8	23.0	0.77	0.26	220	3.49
LINK_1395	176	8	8.0	0.55	0.16	205	3.50
LINK_1396	336	8	15.0	0.71	0.21	230	3.49
LINK_1397	462	8	15.0	0.72	0.21	233	3.49
LINK_1398	268	8	3.0	0.48	0.10	242	3.50
LINK_1399	462	8	10.0	0.64	0.17	233	3.49
LINK_1400	181	8	2.0	0.40	0.09	225	3.50
LINK_1401	452	8	15.0	0.72	0.20	236	3.49
LINK_1402	102	8	3.0	0.51	0.09	269	3.50
LINK_1403	268	8	18.0	0.77	0.22	242	3.49
LINK_1404	268	8	33.0	0.90	0.28	242	3.48
LINK_1405	284	8	51.0	0.95	0.37	221	3.47
LINK_1406	156	8	14.0	0.86	0.17	308	3.49
LINK_1407	167	8	14.0	0.86	0.17	309	3.49
LINK_1408	218	8	7.0	0.68	0.14	278	3.50
LINK_1409	295	8	7.0	0.62	0.15	243	3.50
LINK_1410	539	8	20.0	0.92	0.21	296	3.49
LINK_1411	126	8	5.0	0.60	0.12	274	3.50
LINK_1412	367	8	16.0	0.79	0.21	255	3.49
LINK_1413	242	8	25.0	0.67	0.28	182	3.48
LINK_1414	188	8	27.0	1.00	0.25	291	3.48
LINK_1415	133	8	25.0	0.93	0.25	271	3.48
LINK_1416	270	8	25.0	0.86	0.26	248	3.48
LINK_1417	287	8	12.0	0.69	0.19	238	3.49
LINK_1418	178	8	8.0	0.65	0.15	254	3.50
LINK_1419	179	8	15.0	0.77	0.20	257	3.49
LINK_1420	225	8	22.0	0.78	0.25	226	3.49
LINK_1421	355	8	28.0	0.92	0.26	260	3.48





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_ERUN1

10/07/94  
 PAGE 30

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1422	328	8	38.0	0.89	0.31	227	3.48
LINK_1423	1070	18	91.0	1.16	0.17	2113	3.44
LINK_1424	1180	18	91.0	1.16	0.17	2113	3.44
LINK_1425	796	18	91.0	1.16	0.17	2112	3.44
LINK_1426	946	18	91.0	1.16	0.17	2112	3.44
LINK_1427	0	0	354.0	0.00	0.00	0	3.04
LINK_1428	307	12	24.0	0.84	0.16	720	3.48
P_LINK_14	0	**	24.0	0.00	0.00	0	3.48
LINK_1430	650	8	58.0	1.06	0.38	242	3.46
LINK_1431	442	8	58.0	0.20	0.00	0	3.46
LINK_1432	892	8	58.0	1.06	0.38	243	3.46
LINK_1433	190	8	58.0	1.06	0.38	243	3.46
LINK_1434	684	8	53.0	1.03	0.36	243	3.47
LINK_1435	125	6	91.0	1.03	0.00	0	3.44
LINK_1436	429	10	41.0	0.96	0.25	439	3.47
LINK_1437	403	10	74.0	1.11	0.31	442	3.45
LINK_1438	292	10	99.0	1.21	0.36	443	3.44
LINK_1439	141	10	99.0	1.21	0.37	439	3.44
LINK_1440	0	**	99.0	0.00	0.00	0	3.44
LINK_1441	153	6	99.0	1.13	0.00	0	3.44
O_LINK_15	50	12	1319.0	3.74	0.00	0	2.68
P_LINK_15	0	**	1231.0	0.00	0.00	0	2.70



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DEPTH GREATER THAN 95% DATA REPORT  
 FILE RUN: SY\_ERUN1

10/11/94  
 PAGE 1

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1	509	27	8219.0	4.61	1.00	5559	2.12
LINK_2	405	27	7998.0	4.48	1.00	3978	2.13
LINK_4	381	15	2600.0	4.72	1.00	1163	2.47
LINK_5	367	15	2591.0	4.70	1.00	1447	2.48
LINK_6	448	15	2591.0	4.70	1.00	1373	2.48
LINK_7	477	15	2591.0	4.70	1.00	1145	2.48
LINK_8	715	15	2312.0	4.20	1.00	1210	2.50
LINK_9	287	15	2446.0	4.44	1.00	1732	2.49
LINK_10	348	15	2423.0	4.40	1.00	1340	2.49
LINK_11	296	15	2274.0	4.13	1.00	1362	2.50
LINK_12	405	15	2274.0	4.13	1.00	1164	2.50
LINK_13	149	12	1848.0	5.24	1.00	557	2.58
LINK_14	183	12	1822.0	5.17	1.00	749	2.59
LINK_15	377	12	1956.0	5.55	1.00	838	2.56
LINK_16	377	12	1949.0	5.53	1.00	710	2.56
LINK_17	173	12	1949.0	5.53	1.00	122	2.56
LINK_18	220	12	1883.0	5.34	1.00	794	2.57
LINK_19	133	12	1779.0	5.05	1.00	606	2.59
LINK_20	220	12	1600.0	4.54	1.00	611	2.63
LINK_21	25	12	1493.0	4.24	1.00	1110	2.65
LINK_22	34	12	1493.0	4.24	1.00	275	2.65
LINK_23	284	12	1411.0	4.00	1.00	807	2.66
LINK_25	225	12	1081.0	3.07	1.00	956	2.73
LINK_27	242	12	1356.0	3.85	1.00	714	2.67
LINK_28	65	12	1334.0	3.78	1.00	1209	2.68
LINK_29	458	12	595.0	1.69	1.00	560	2.87
LINK_32	242	12	595.0	1.69	1.00	525	2.87
LINK_33	73	8	275.0	1.75	1.00	156	3.11
LINK_34	450	12	595.0	1.69	1.00	575	2.87
LINK_36	355	12	562.0	1.59	1.00	417	2.88
LINK_49	616	27	5468.0	3.06	1.00	1123	2.28
LINK_51	415	27	5624.0	3.15	1.00	3870	2.28
LINK_52	188	27	5624.0	3.15	1.00	2273	2.28
LINK_54	373	27	5624.0	3.15	1.00	5399	2.28
LINK_55	435	27	5624.0	3.15	1.00	4432	2.28
LINK_60	87	27	5733.0	3.21	1.00	5590	2.27
LINK_61	479	22	4351.0	3.67	1.00	3742	2.34
LINK_62	73	22	4351.0	3.67	1.00	945	2.34
LINK_63	66	22	4351.0	3.67	1.00	2980	2.34
LINK_65	840	27	4446.0	2.49	1.00	3936	2.34
LINK_66	1205	27	5008.0	2.81	1.00	3613	2.31
LINK_69	270	12	706.0	2.00	1.00	703	2.82
LINK_70	394	12	715.0	2.03	1.00	708	2.82
LINK_73	184	12	731.0	2.07	1.00	515	2.81
LINK_74	354	12	811.0	2.30	1.00	767	2.79
LINK_75	205	12	818.0	2.32	1.00	717	2.79
LINK_76	241	12	821.0	2.33	1.00	677	2.79
LINK_77	522	12	828.0	2.35	1.00	775	2.78
LINK_79	207	12	694.0	1.97	1.00	546	2.83



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DEPTH GREATER THAN 95% DATA REPORT  
 FILE RUN: SY\_ERUN1

10/11/94  
 PAGE 2

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_82	614	10	490.0	2.00	1.00	367	2.93
LINK_84	365	8	360.0	2.30	1.00	246	3.04
LINK_85	359	8	294.0	1.88	1.00	167	3.09
LINK_86	352	8	171.0	1.09	1.00	166	3.36
LINK_89	351	8	243.0	1.55	1.00	203	3.19
LINK_93	373	18	1798.0	2.27	1.00	1528	2.59
LINK_119	325	12	658.0	1.87	1.00	333	2.84
LINK_121	248	12	773.0	2.19	1.00	734	2.80
LINK_122	235	12	776.0	2.20	1.00	739	2.80
LINK_124	118	12	789.0	2.24	1.00	532	2.79
LINK_127	415	18	1836.0	2.32	1.00	1485	2.58
LINK_128	500	18	1836.0	2.32	1.00	1582	2.58
LINK_130	416	18	1836.0	2.32	1.00	613	2.58
LINK_131	60	8	1836.0	11.72	1.00	698	2.58
LINK_134	413	18	2081.0	2.62	1.00	1115	2.53
LINK_135	452	18	2081.0	2.62	1.00	1043	2.53
LINK_137	178	18	2119.0	2.67	1.00	614	2.53
LINK_139	388	18	1758.0	2.22	1.00	1399	2.60
LINK_140	345	18	1791.0	2.26	1.00	1763	2.59
LINK_147	364	15	1366.0	2.48	1.00	1345	2.67
LINK_148	358	15	1504.0	2.73	1.00	1229	2.65
LINK_149	386	15	1569.0	2.85	1.00	1155	2.64
LINK_150	368	15	1625.0	2.95	1.00	1212	2.62
LINK_151	369	15	1667.0	3.03	1.00	969	2.62
LINK_152	379	18	1708.0	2.15	1.00	1610	2.61
LINK_246	257	8	263.0	1.68	1.00	260	3.14
LINK_253	317	8	303.0	1.93	1.00	248	3.08
LINK_254	130	8	315.0	2.01	1.00	158	3.07
LINK_256	239	8	360.0	2.30	1.00	161	3.04
LINK_257	156	8	403.0	2.57	1.00	272	3.00
LINK_258	184	8	403.0	2.57	1.00	237	3.00
LINK_288	349	8	239.0	1.52	1.00	231	3.20
LINK_289	484	8	239.0	1.52	1.00	217	3.20
LINK_320	320	8	160.0	1.02	1.00	91	3.38
LINK_321	333	8	267.0	1.71	1.00	235	3.13
LINK_323	295	8	267.0	1.71	1.00	192	3.13
LINK_324	301	8	267.0	1.71	1.00	243	3.13
LINK_325	511	8	414.0	2.65	1.00	232	2.99
LINK_326	490	8	435.0	2.78	1.00	225	2.97
LINK_508	169	10	293.0	1.20	1.00	273	3.09
LINK_581	262	8	232.0	1.48	1.00	220	3.22
LINK_582	345	8	236.0	1.50	1.00	187	3.21
LINK_583	234	8	261.0	1.67	1.00	204	3.15
LINK_584	262	8	261.0	1.67	1.00	174	3.15
LINK_608	196	10	248.0	1.01	1.00	244	3.18
LINK_910	193	8	331.0	2.11	1.00	55	3.06
LINK_911	201	8	348.0	2.22	1.00	307	3.05
LINK_912	369	8	393.0	2.51	1.00	251	3.01
LINK_913	189	8	416.0	2.66	1.00	177	2.99



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DEPTH GREATER THAN 95% DATA REPORT  
 FILE RUN: SY\_ERUN1

10/11/94  
 PAGE 3

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_914	159	8	473.0	3.02	1.00	299	2.94
LINK_936	366	8	222.0	1.42	1.00	203	3.24
LINK_937	376	8	272.0	1.74	1.00	221	3.12
LINK_957	313	8	221.0	1.41	1.00	219	3.25
LINK_1089	485	8	293.0	1.87	1.00	230	3.09
LINK_1090	534	8	336.0	2.15	1.00	212	3.06
LINK_1091	224	8	336.0	2.15	1.00	244	3.06
LINK_1092	262	8	336.0	2.15	1.00	196	3.06
LINK_1094	125	8	336.0	2.15	1.00	248	3.06
LINK_1140	302	14	751.0	1.57	1.00	311	2.80
LINK_1143	33	8	334.0	2.13	1.00	328	3.06
LINK_1179	183	12	931.0	2.64	1.00	795	2.76
LINK_1227	377	8	136.0	0.87	1.00	105	3.41
LINK_1232	56	15	1596.0	2.90	1.00	388	2.63
LINK_1233	156	15	1596.0	2.90	1.00	901	2.63
LINK_1234	198	15	1590.0	2.89	1.00	990	2.63
LINK_1235	154	15	1559.0	2.83	1.00	994	2.64
LINK_1236	199	15	1544.0	2.80	1.00	1366	2.64
LINK_1237	188	15	1517.0	2.75	1.00	994	2.64
LINK_1238	167	15	1456.0	2.64	1.00	927	2.66
LINK_1239	206	15	1420.0	2.58	1.00	1163	2.66
LINK_1240	195	15	1369.0	2.49	1.00	998	2.67
LINK_1241	365	15	1314.0	2.39	1.00	997	2.68
LINK_1242	354	15	1255.0	2.28	1.00	977	2.69
LINK_1243	358	15	1176.0	2.14	1.00	1139	2.71
LINK_1244	361	15	997.0	1.81	1.00	991	2.75
LINK_1247	242	15	895.0	1.63	1.00	699	2.77
LINK_1261	224	12	935.0	2.65	1.00	442	2.76
LINK_1263	138	27	8193.0	4.59	1.00	6388	2.12





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

## ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 1

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1	509	27	29.81	29.00	51.50	51.50	0.0015	MAIN ST. TRUN
LINK_2	405	27	30.56	30.23	53.37	52.45	0.0008	MAIN ST. TRUN
LINK_3	248	15	37.48	32.17	52.88	53.37	0.0214	IMPERIAL AVE.
LINK_4	381	15	38.09	37.48	53.97	52.88	0.0016	IMPERIAL AVE.
LINK_5	367	15	39.00	38.09	55.00	53.97	0.0024	IMPERIAL AVE.
LINK_6	448	15	40.00	39.00	56.00	55.00	0.0022	IMPERIAL AVE.
LINK_7	477	15	40.74	40.00	55.62	56.00	0.0015	IMPERIAL AVE.
LINK_8	715	15	43.47	42.23	56.22	56.30	0.0017	IMPERIAL AVE.
LINK_9	287	15	41.49	40.47	56.00	55.62	0.0035	IMPERIAL AVE.
LINK_10	348	15	42.23	41.49	56.30	56.00	0.0021	IMPERIAL AVE.
LINK_11	296	15	44.12	43.47	56.90	56.22	0.0022	IMPERIAL AVE.
LINK_12	405	15	44.77	44.12	57.11	56.90	0.0016	IMPERIAL AVE.
LINK_13	149	12	47.37	47.19	59.37	59.25	0.0012	IMPERIAL AVE.
LINK_14	183	12	47.77	47.37	59.79	59.37	0.0021	IMPERIAL AVE.
LINK_15	377	12	45.80	44.77	57.88	57.11	0.0027	IMPERIAL AVE.
LINK_16	377	12	46.54	45.80	58.66	57.88	0.0019	IMPERIAL AVE.
LINK_17	173	12	46.65	46.64	59.01	58.66	0.0000	IMPERIAL AVE.
LINK_18	220	12	47.19	46.65	59.25	59.01	0.0024	IMPERIAL AVE.
LINK_19	133	12	47.96	47.77	59.90	59.79	0.0014	IMPERIAL AVE.
LINK_20	220	12	48.28	47.96	60.19	59.90	0.0014	IMPERIAL AVE.
LINK_21	25	12	48.40	48.28	60.23	60.19	0.0048	IMPERIAL AVE.
LINK_22	34	12	48.41	48.40	60.31	60.23	0.0002	IMPERIAL AVE.
LINK_23	284	12	49.13	48.41	60.85	60.31	0.0025	IMPERIAL AVE.
LINK_24	55	12	50.04	50.32	61.54	61.55	-0.0050	IMPERIAL AVE.
LINK_25	225	12	50.32	49.52	61.55	61.28	0.0035	IMPERIAL AVE.
LINK_26	49	12	48.97	49.13	60.70	60.85	-0.0030	IMPERIAL AVE.
LINK_27	242	12	49.45	48.97	61.16	60.70	0.0019	IMPERIAL AVE.
LINK_28	65	12	49.82	49.45	61.28	61.16	0.0056	IMPERIAL AVE.
LINK_29	458	12	50.60	50.04	62.21	61.54	0.0012	IMPERIAL AVE.
LINK_30	457	12	51.26	50.60	63.04	62.21	0.0014	IMPERIAL AVE.
LINK_31	236	12	52.43	51.50	64.57	63.90	0.0039	IMPERIAL AVE.
LINK_32	242	12	52.10	51.84	63.90	63.77	0.0010	IMPERIAL AVE.
LINK_33	73	8	54.12	54.06	65.22	65.28	0.0008	B-1
LINK_34	450	12	51.84	51.26	63.77	63.04	0.0012	IMPERIAL AVE.
LINK_35	326	12	52.93	52.43	64.37	64.57	0.0015	IMPERIAL AVE.
LINK_36	355	12	53.17	52.93	64.82	64.37	0.0006	IMPERIAL AVE.
LINK_37	327	12	53.66	53.17	65.26	64.82	0.0015	IMPERIAL AVE.
LINK_38	93	12	53.80	53.66	65.28	65.26	0.0015	IMPERIAL AVE.
LINK_39	254	21	57.05	56.54	69.50	69.50	0.0020	PRISON TRUNK
LINK_40	637	21	56.54	54.52	69.50	68.30	0.0031	PRISON TRUNK
LINK_41	0	**	0.00	27.70	52.20	52.20	0.0000	
LINK_42	837	8	61.34	54.12	65.32	65.22	0.0086	B-1
LINK_43	610	18	62.58	61.36	72.00	72.00	0.0020	PRISON TRUNK
LINK_44	627	18	61.36	60.10	72.00	69.50	0.0020	PRISON TRUNK
LINK_45	646	21	60.10	58.81	69.50	69.50	0.0020	PRISON TRUNK
LINK_46	587	21	58.81	57.63	69.50	69.50	0.0020	PRISON TRUNK
LINK_47	465	27	35.84	35.10	49.91	50.66	0.0015	MAIN ST. TRUN
LINK_48	376	27	35.10	34.38	50.66	50.70	0.0019	MAIN ST. TRUN
LINK_49	616	27	34.38	34.34	50.70	51.39	0.0000	MAIN ST. TRUN



## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 2

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_50	505	27	34.34	33.52	51.39	52.04	0.0016	MAIN ST. TRUN
LINK_51	415	27	33.52	33.20	52.04	52.77	0.0007	MAIN ST. TRUN
LINK_52	188	27	33.20	33.15	52.77	51.87	0.0002	MAIN ST. TRUN
LINK_53	35	27	33.15	32.98	51.87	52.63	0.0048	MAIN ST. TRUN
LINK_54	373	27	32.98	32.42	52.63	53.19	0.0015	MAIN ST. TRUN
LINK_55	435	27	32.42	31.98	53.19	53.31	0.0010	MAIN ST. TRUN
LINK_56	370	27	31.98	29.72	53.31	51.62	0.0061	MAIN ST. TRUN
LINK_57	36	27	29.72	30.62	51.62	51.62	-.0250	MAIN ST. TRUN
LINK_58	219	27	30.62	31.42	51.62	51.77	-.0030	MAIN ST. TRUN
LINK_59	346	27	31.42	30.70	51.77	53.00	0.0020	MAIN ST. TRUN
LINK_60	87	27	30.70	30.56	53.00	53.37	0.0016	MAIN ST. TRUN
LINK_61	479	22	39.28	38.25	54.20	55.07	0.0021	MAIN ST. TRUN
LINK_62	73	22	38.25	38.24	55.07	51.72	0.0001	MAIN ST. TRUN
LINK_63	66	22	38.24	38.15	51.72	54.12	0.0013	MAIN ST. TRUN
LINK_64	342	27	38.15	37.61	54.12	54.89	0.0015	MAIN ST. TRUN
LINK_65	840	27	37.64	36.97	54.89	51.27	0.0008	MAIN ST. TRUN
LINK_66	1205	27	36.97	36.16	51.27	50.30	0.0006	MAIN ST. TRUN
LINK_67	200	27	36.16	35.84	50.30	49.91	0.0016	MAIN ST. TRUN
LINK_68	28	8	45.51	45.67	53.06	52.79	-.0050	8TH ST. TRUNK
LINK_69	270	12	45.67	45.15	52.79	53.70	0.0019	8TH ST. TRUNK
LINK_70	394	12	45.15	44.38	53.70	52.99	0.0019	8TH ST. TRUNK
LINK_71	252	12	44.38	43.84	52.99	53.00	0.0021	8TH ST. TRUNK
LINK_72	236	12	43.84	43.23	53.00	52.83	0.0025	8TH ST. TRUNK
LINK_73	184	12	43.23	43.04	52.83	53.24	0.0010	8TH ST. TRUNK
LINK_74	354	12	43.04	42.23	53.24	53.11	0.0022	8TH ST. TRUNK
LINK_75	205	12	42.23	41.82	53.11	53.98	0.0020	8TH ST. TRUNK
LINK_76	241	12	41.82	41.39	53.98	52.90	0.0017	8TH ST. TRUNK
LINK_77	522	12	41.39	40.17	52.90	54.20	0.0023	8TH ST. TRUNK
LINK_78	190	12	45.90	45.51	53.07	53.06	0.0020	8TH ST. TRUNK
LINK_79	207	12	46.14	45.90	52.89	53.07	0.0011	8TH ST. TRUNK
LINK_80	174	12	46.54	46.14	53.74	52.89	0.0023	8TH ST. TRUNK
LINK_81	324	10	47.47	46.54	54.12	53.74	0.0028	8TH ST. TRUNK
LINK_82	614	10	48.32	47.47	54.84	54.12	0.0013	8TH ST. TRUNK
LINK_83	209	10	48.91	48.32	55.02	54.84	0.0028	8TH ST. TRUNK
LINK_84	365	8	49.66	48.91	55.56	55.02	0.0020	8TH ST. TRUNK
LINK_85	359	8	50.00	49.66	56.29	55.56	0.0009	8TH ST. TRUNK
LINK_86	352	8	50.33	50.00	56.60	56.26	0.0009	8TH ST. TRUNK
LINK_87	185	8	51.21	50.33	57.03	56.60	0.0047	8TH ST. TRUNK
LINK_88	179	8	51.68	51.21	57.95	57.03	0.0026	8TH ST. TRUNK
LINK_89	351	8	52.17	51.68	58.35	57.96	0.0014	8TH ST. TRUNK
LINK_90	335	8	52.71	51.68	59.16	58.35	0.0030	8TH ST. TRUNK
LINK_91	108	8	53.49	52.71	59.40	59.16	0.0072	8TH ST. TRUNK
LINK_92	70	8	53.63	53.49	59.01	59.40	0.0020	8TH ST. TRUNK
LINK_93	373	18	41.70	41.31	53.73	54.48	0.0010	4TH STREET TR
LINK_94	207	18	41.31	41.00	54.48	54.35	0.0015	4TH STREET TR
LINK_95	179	18	41.00	40.69	54.35	54.25	0.0017	4TH STREET TR
LINK_96	189	18	40.69	39.99	54.25	53.30	0.0037	4TH STREET TR
LINK_97	184	18	39.99	39.28	53.30	54.20	0.0038	4TH STREET TR
LINK_98	364	8	49.95	48.79	57.27	56.80	0.0031	4TH STREET TR





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 3

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_99	298	8	48.79	47.79	56.80	56.43	0.0033	4TH STREET TR
LINK_100	167	10	47.77	47.49	56.43	56.46	0.0016	4TH STREET TR
LINK_101	202	10	47.49	46.77	56.46	55.61	0.0035	4TH STREET TR
LINK_102	150	12	46.77	46.51	55.61	55.51	0.0017	4TH STREET TR
LINK_103	204	12	46.51	45.89	55.51	54.84	0.0030	4TH STREET TR
LINK_104	111	12	45.89	45.84	54.84	54.82	0.0004	4TH STREET TR
LINK_105	251	12	45.84	45.17	54.52	54.82	0.0026	4TH STREET TR
LINK_106	50	12	45.17	45.10	54.52	54.52	0.0014	4TH AVE. CROS
LINK_107	102	12	45.10	44.89	54.52	54.38	0.0020	4TH STREET TR
LINK_108	197	12	44.89	44.47	54.38	54.28	0.0021	4TH STREET TR
LINK_109	190	14	44.47	43.94	54.28	54.20	0.0027	4TH STREET TR
LINK_110	170	14	43.94	43.42	54.20	54.06	0.0030	4TH STREET TR
LINK_111	203	14	43.42	42.87	54.06	54.02	0.0027	4TH STREET TR
LINK_112	163	14	42.87	42.38	54.02	53.85	0.0030	4TH STREET TR
LINK_113	189	14	42.38	41.98	53.85	53.92	0.0021	4TH STREET TR
LINK_114	194	14	41.98	41.70	53.92	53.73	0.0014	4TH STREET TR
LINK_115	162	8	49.95	49.95	57.40	57.27	0.0000	4TH STREET TR
LINK_116	208	8	50.68	49.95	58.04	57.40	0.0035	4TH STREET TR
LINK_117	236	12	50.82	50.12	62.77	62.55	0.0029	4TH STREET TR
LINK_118	244	12	50.12	49.63	62.55	62.22	0.0020	4TH STREET TR
LINK_119	325	12	49.63	49.49	62.22	61.30	0.0004	4TH STREET TR
LINK_120	239	12	49.49	48.79	61.30	61.14	0.0029	4TH STREET TR
LINK_121	248	12	48.79	48.27	61.14	60.58	0.0021	4TH STREET TR
LINK_122	235	12	48.27	47.77	60.58	59.65	0.0021	4TH STREET TR
LINK_123	300	12	47.77	47.01	59.65	58.42	0.0025	4TH STREET TR
LINK_124	118	12	47.15	47.02	58.75	58.57	0.0011	4TH STREET TR
LINK_125	225	8	51.81	51.03	58.97	58.22	0.0034	4TH STREET TR
LINK_126	167	8	51.03	50.68	58.22	58.04	0.0021	4TH STREET TR
LINK_127	415	18	33.60	33.19	50.60	50.44	0.0009	EASTSIDE TRUN
LINK_128	500	18	33.19	32.63	50.44	50.48	0.0011	EASTSIDE TRUN
LINK_129	183	18	32.63	32.09	50.48	50.93	0.0029	EASTSIDE TRUN
LINK_130	416	18	32.06	31.99	50.93	51.26	0.0001	EASTSIDE TRUN
LINK_131	0	8	31.99	31.00	51.26	52.20	*.****	EASTSIDE TRUN
LINK_132	109	8	37.00	41.88	52.20	50.90	-.0440	MAIN ST. TRUN
LINK_133	271	18	41.88	40.20	50.90	51.58	0.0062	MAIN ST. TRUN
LINK_134	413	18	40.20	39.97	51.58	53.97	0.0005	MAIN ST. TRUN
LINK_135	452	18	39.97	39.75	53.97	53.25	0.0004	MAIN ST. TRUN
LINK_136	40	18	39.75	39.82	53.25	53.29	-.0010	MAIN ST. TRUN
LINK_137	178	18	39.82	39.79	53.29	55.13	0.0001	MAIN ST. TRUN
LINK_138	47	18	39.78	39.28	55.13	54.20	0.0106	MAIN ST. TRUN
LINK_139	388	18	35.60	35.26	50.04	49.69	0.0008	EASTSIDE TRUN
LINK_140	345	18	35.26	34.78	49.69	49.50	0.0013	EASTSIDE TRUN
LINK_141	409	18	34.78	34.15	49.50	49.75	0.0015	EASTSIDE TRUN
LINK_142	236	18	34.15	33.60	49.75	50.60	0.0023	EASTSIDE TRUN
LINK_143	141	18	35.82	35.60	50.68	50.04	0.0015	EASTSIDE TRUN
LINK_144	356	15	44.14	42.50	56.44	54.60	0.0046	G-1
LINK_145	356	15	42.50	40.87	54.60	53.80	0.0045	G-1
LINK_146	416	15	40.87	39.83	53.80	53.44	0.0025	EASTSIDE TRUN
LINK_147	364	15	39.83	39.05	53.44	52.68	0.0021	EASTSIDE TRUN





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE PHYSICAL DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SEWER COLLECTION SYSTEM

10/10/94  
 PAGE 4

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_148	358	15	39.05	38.41	52.68	52.39	0.0017	EASTSIDE TRUN
LINK_149	386	15	38.41	37.80	52.39	51.98	0.0015	EASTSIDE TRUN
LINK_150	368	15	37.80	37.16	51.98	51.63	0.0017	EASTSIDE TRUN
LINK_151	369	15	37.16	36.75	51.63	51.34	0.0011	EASTSIDE TRUN
LINK_152	379	18	36.75	36.31	51.34	50.83	0.0011	EASTSIDE TRUN
LINK_153	197	18	36.31	35.82	50.83	50.68	0.0024	EASTSIDE TRUN
LINK_154	456	27	44.49	44.01	56.00	55.50	0.0010	LA BRUCHERIE
LINK_155	637	27	44.01	43.05	55.50	55.70	0.0015	LA BRUCHERIE
LINK_156	468	30	43.05	41.90	54.70	53.90	0.0024	LA BRUCHERIE
LINK_157	364	30	41.90	41.26	53.90	53.50	0.0017	LA BRUCHERIE
LINK_158	456	30	41.26	40.54	53.50	53.00	0.0015	LA BRUCHERIE
LINK_159	462	30	40.54	39.82	53.00	52.50	0.0015	LA BRUCHERIE
LINK_160	487	30	40.95	39.02	52.50	52.00	0.0039	LA BRUCHERIE
LINK_161	493	30	39.02	38.22	52.00	51.50	0.0016	LA BRUCHERIE
LINK_162	465	30	38.22	37.46	51.50	50.00	0.0016	LA BRUCHERIE
LINK_163	557	30	37.46	36.62	50.00	49.50	0.0015	LA BRUCHERIE
LINK_164	484	30	36.62	31.18	49.50	49.50	0.0112	LA BRUCHERIE
LINK_165	242	30	31.18	31.00	49.50	49.50	0.0007	LA BRUCHERIE
LINK_166	301	27	51.40	50.85	64.40	64.20	0.0018	LA BRUCHERIE
LINK_167	373	27	50.85	50.25	64.20	63.00	0.0016	LA BRUCHERIE
LINK_168	387	27	50.25	49.67	63.00	62.50	0.0015	LA BRUCHERIE
LINK_169	342	27	49.67	49.13	62.50	62.00	0.0015	LA BRUCHERIE
LINK_170	447	27	49.13	48.49	62.00	61.00	0.0014	LA BRUCHERIE
LINK_171	323	27	48.49	48.01	61.00	60.50	0.0014	LA BRUCHERIE
LINK_172	359	27	48.01	47.43	60.50	60.00	0.0016	LA BRUCHERIE
LINK_173	365	27	47.43	46.99	60.00	58.50	0.0012	LA BRUCHERIE
LINK_174	410	27	46.99	46.31	58.50	57.50	0.0016	LA BRUCHERIE
LINK_175	574	27	46.31	45.37	57.50	57.20	0.0016	LA BRUCHERIE
LINK_176	606	27	45.37	44.49	57.20	56.00	0.0014	LA BRUCHERIE
LINK_177	247	24	61.00	60.38	69.00	69.00	0.0025	LA BRUCHERIE
LINK_178	921	24	60.38	58.73	69.00	69.00	0.0017	LA BRUCHERIE
LINK_179	566	24	58.07	57.63	69.06	69.00	0.0007	LA BRUCHERIE
LINK_180	614	24	57.63	56.43	69.00	69.00	0.0019	LA BRUCHERIE
LINK_181	563	24	56.43	55.29	69.00	68.60	0.0020	LA BRUCHERIE
LINK_182	336	24	55.29	54.80	68.60	68.20	0.0014	LA BRUCHERIE
LINK_183	215	24	54.80	54.44	68.20	67.70	0.0016	LA BRUCHERIE
LINK_184	96	24	54.44	54.31	67.70	67.60	0.0013	LA BRUCHERIE
LINK_185	298	24	54.31	53.85	67.60	67.40	0.0015	LA BRUCHERIE
LINK_186	121	24	53.85	53.64	67.40	67.00	0.0017	LA BRUCHERIE
LINK_187	507	24	53.64	52.70	67.00	65.50	0.0018	LA BRUCHERIE
LINK_188	218	27	52.70	52.30	65.50	65.30	0.0018	LA BRUCHERIE
LINK_189	297	27	52.30	51.84	65.30	64.70	0.0015	LA BRUCHERIE
LINK_190	106	27	51.84	51.68	64.70	64.55	0.0015	LA BRUCHERIE
LINK_191	198	27	51.68	51.40	64.55	64.40	0.0014	LA BRUCHERIE
LINK_192	302	8	58.61	58.00	65.93	65.20	0.0020	A-1
LINK_193	343	8	58.00	57.48	65.20	64.80	0.0015	A-1
LINK_194	307	8	57.48	56.95	64.80	64.50	0.0017	A-1
LINK_195	354	8	56.95	56.48	64.50	64.10	0.0013	A-1
LINK_196	292	8	56.48	55.72	64.10	64.60	0.0026	A-1



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE PHYSICAL DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SEWER COLLECTION SYSTEM

10/10/94  
 PAGE 5

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_197	303	8	55.72	55.60	64.60	64.70	0.0004	A-1
LINK_198	298	8	55.60	55.00	64.70	65.50	0.0020	A-1
LINK_199	286	8	60.35	59.78	65.30	64.80	0.0019	A-1
LINK_200	337	8	59.78	59.26	64.80	64.40	0.0015	A-1
LINK_201	298	8	59.26	58.73	64.40	64.10	0.0017	A-1
LINK_202	356	8	58.73	58.21	64.10	63.70	0.0014	A-1
LINK_203	300	8	58.21	57.50	63.70	64.20	0.0023	A-1
LINK_204	297	8	57.50	57.38	64.20	64.30	0.0004	A-1
LINK_205	284	8	57.38	53.80	64.30	65.30	0.0126	A-1
LINK_206	282	8	58.71	58.08	64.30	64.00	0.0022	A-1
LINK_207	304	8	58.08	57.45	64.00	63.70	0.0020	A-1
LINK_208	363	8	57.45	56.83	63.70	63.30	0.0017	A-1
LINK_209	288	8	56.83	56.26	63.30	63.60	0.0019	A-1
LINK_210	299	8	56.26	55.66	63.60	63.90	0.0020	A-1
LINK_211	285	8	55.66	55.06	63.90	64.70	0.0021	A-1
LINK_212	290	8	58.86	58.24	63.50	63.60	0.0021	A-1
LINK_213	301	8	58.24	57.62	63.60	63.30	0.0020	A-1
LINK_214	367	8	57.62	57.00	63.30	63.00	0.0016	A-1
LINK_215	291	8	57.00	56.41	63.00	63.40	0.0020	A-1
LINK_216	293	8	56.41	55.82	63.40	63.70	0.0020	A-1
LINK_217	284	8	55.82	55.23	63.70	64.40	0.0020	A-1
LINK_218	293	8	60.57	60.12	65.34	66.06	0.0015	A-1
LINK_219	232	8	60.47	59.95	67.00	66.50	0.0022	A-1
LINK_220	254	8	60.70	59.58	66.60	66.40	0.0044	A-1
LINK_221	380	8	59.13	58.39	66.30	66.00	0.0019	A-1
LINK_222	431	8	59.29	58.39	66.46	66.88	0.0020	A-1
LINK_223	463	8	58.39	57.50	66.88	68.20	0.0019	A-1
LINK_224	439	8	58.59	57.70	66.10	66.50	0.0020	A-1
LINK_225	455	8	57.70	56.80	66.50	67.60	0.0019	A-1
LINK_226	203	8	58.50	57.89	66.95	66.70	0.0030	A-1
LINK_227	449	8	57.89	56.99	66.70	67.58	0.0020	A-1
LINK_228	457	8	56.99	56.44	67.58	68.60	0.0012	A-1
LINK_229	235	8	60.12	59.52	66.06	66.64	0.0025	A-1
LINK_230	266	8	59.52	59.11	66.64	66.84	0.0015	A-1
LINK_231	244	8	59.11	58.51	66.84	67.14	0.0024	A-1
LINK_232	236	8	59.43	59.11	67.78	67.44	0.0013	A-1
LINK_233	312	8	59.11	58.51	67.44	67.14	0.0019	A-1
LINK_234	316	8	58.51	57.89	67.14	66.72	0.0019	A-1
LINK_235	288	8	61.34	61.16	68.80	68.70	0.0006	BB-1
LINK_236	333	8	61.16	60.73	68.70	68.20	0.0012	BB-1
LINK_237	321	8	60.73	60.29	68.20	67.80	0.0013	BB-1
LINK_238	351	8	58.39	57.70	66.00	66.40	0.0019	A-1
LINK_239	346	8	57.70	57.01	66.40	66.50	0.0019	A-1
LINK_240	195	8	57.01	56.60	66.50	67.40	0.0021	A-1
LINK_241	610	8	46.51	45.53	51.56	51.84	0.0016	B-5
LINK_242	270	8	47.29	46.36	52.64	52.34	0.0034	B-5
LINK_243	331	8	46.36	45.40	52.34	51.84	0.0029	B-5
LINK_244	256	8	48.02	47.07	53.12	52.76	0.0037	B-5
LINK_245	313	8	47.07	46.06	52.76	52.30	0.0032	B-5





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 6

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_246	257	8	47.27	46.68	51.95	52.15	0.0023	B-5
LINK_247	295	8	46.86	46.06	52.15	52.30	0.0027	B-5
LINK_248	311	8	47.95	47.44	52.37	52.67	0.0016	B-5
LINK_249	215	8	47.44	46.88	52.67	52.67	0.0026	B-5
LINK_250	258	8	48.65	47.76	53.55	53.27	0.0034	B-5
LINK_251	307	8	47.76	46.67	53.27	52.67	0.0035	B-5
LINK_252	329	8	46.67	46.06	52.67	52.30	0.0018	B-5
LINK_253	317	8	46.06	45.40	52.30	51.84	0.0020	B-5
LINK_254	130	8	45.40	45.29	51.84	51.87	0.0008	B-5
LINK_255	127	8	45.29	44.47	51.87	51.58	0.0064	B-5
LINK_256	239	8	44.47	44.26	51.58	51.30	0.0008	B-5
LINK_257	156	8	44.26	43.87	51.30	51.22	0.0025	B-5
LINK_258	184	8	43.87	43.52	51.22	50.97	0.0019	B-5
LINK_259	202	8	43.52	42.40	50.97	51.15	0.0055	B-5
LINK_260	111	8	46.00	45.30	51.50	51.01	0.0063	B-5
LINK_261	285	8	45.30	44.68	51.01	50.68	0.0021	B-5
LINK_262	312	8	44.68	44.23	50.68	49.86	0.0014	B-5
LINK_263	179	8	44.23	43.10	49.86	50.00	0.0063	B-5
LINK_264	317	12	43.10	42.49	50.00	50.25	0.0019	B-5
LINK_265	290	12	42.49	41.94	50.25	51.15	0.0019	B-5
LINK_266	308	12	41.94	41.37	51.15	51.87	0.0018	B-5
LINK_267	410	12	41.37	40.50	51.87	53.37	0.0021	B-5
LINK_268	344	8	49.18	48.95	54.18	54.52	0.0006	B-4
LINK_269	414	8	48.95	47.01	54.52	53.47	0.0046	B-4
LINK_270	371	8	49.63	48.90	54.67	54.23	0.0019	B-4
LINK_271	384	8	48.90	48.17	54.23	53.41	0.0019	B-4
LINK_272	400	8	49.70	48.90	55.20	54.73	0.0020	B-4
LINK_273	348	8	48.90	48.10	54.73	53.89	0.0023	B-4
LINK_274	332	8	44.21	43.95	53.89	53.41	0.0007	B-4
LINK_275	334	8	43.95	43.70	53.41	53.74	0.0007	B-4
LINK_276	328	8	43.70	43.09	53.74	53.19	0.0018	B-4
LINK_277	290	8	45.99	44.95	55.25	55.70	0.0035	B-4
LINK_278	352	8	46.18	45.99	55.58	55.25	0.0005	B-4
LINK_279	302	8	46.82	46.18	55.90	55.58	0.0021	B-4
LINK_280	288	8	46.82	46.24	53.90	54.20	0.0020	B-4
LINK_281	332	8	46.24	45.60	54.20	54.30	0.0019	B-4
LINK_282	321	8	45.60	44.95	54.30	55.70	0.0020	B-4
LINK_283	173	8	44.95	44.66	55.70	54.26	0.0016	B-4
LINK_284	224	8	45.70	45.24	54.40	54.20	0.0020	B-4
LINK_285	289	8	45.24	44.66	54.20	54.26	0.0020	B-4
LINK_286	425	8	44.66	43.87	54.26	54.06	0.0018	B-4
LINK_287	394	8	43.87	43.09	54.06	53.19	0.0019	B-4
LINK_288	349	8	43.09	42.46	53.19	52.90	0.0018	B-4
LINK_289	484	8	42.46	41.69	52.90	52.35	0.0015	B-4
LINK_290	325	8	41.69	40.70	52.35	52.45	0.0030	B-4
LINK_291	284	8	48.16	47.60	52.67	52.92	0.0019	B-4
LINK_292	310	8	48.66	47.60	53.36	52.90	0.0034	B-4
LINK_293	151	8	47.60	47.25	52.90	54.07	0.0023	B-4
LINK_294	274	8	47.25	46.02	54.07	54.00	0.0044	B-4



## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 7

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_295	394	8	46.02	45.03	54.00	51.97	0.0025	B-4
LINK_296	458	8	50.29	49.80	57.34	56.86	0.0010	B-3
LINK_297	427	8	49.80	48.84	56.86	56.38	0.0022	B-3
LINK_298	461	8	48.84	47.72	56.38	56.26	0.0024	B-3
LINK_299	302	8	47.72	46.66	56.26	55.80	0.0035	B-3
LINK_300	136	8	46.66	46.25	55.80	55.84	0.0030	B-3
LINK_301	435	8	46.25	45.44	55.84	55.29	0.0018	B-3
LINK_302	70	8	45.44	45.32	55.29	55.62	0.0017	B-3
LINK_303	253	8	51.62	50.95	56.62	56.76	0.0026	B-3
LINK_304	171	8	50.95	50.78	56.76	54.71	0.0009	B-3
LINK_305	188	8	50.78	50.47	54.71	56.00	0.0016	B-3
LINK_306	553	8	52.44	50.60	57.71	57.27	0.0033	B-3
LINK_307	329	8	50.60	49.86	57.27	56.80	0.0022	B-3
LINK_308	348	8	49.89	49.02	56.80	56.27	0.0025	B-3
LINK_309	320	8	49.02	47.99	56.27	56.22	0.0032	B-3
LINK_310	261	8	47.99	47.57	56.22	56.20	0.0016	B-3
LINK_311	58	8	47.57	47.47	56.20	56.30	0.0017	B-3
LINK_312	408	8	51.50	50.85	59.20	58.85	0.0015	B-3
LINK_313	345	8	50.86	50.35	58.85	59.38	0.0014	B-3
LINK_314	377	8	50.35	49.03	59.38	57.91	0.0035	B-3
LINK_315	330	8	49.03	48.12	57.91	56.22	0.0027	B-3
LINK_316	507	8	49.95	48.55	59.66	60.31	0.0027	C-2
LINK_317	347	8	51.40	49.95	60.40	59.66	0.0041	C-2
LINK_318	458	8	51.57	50.71	60.50	59.95	0.0018	B-3
LINK_319	215	8	50.71	50.28	59.95	59.79	0.0020	B-3
LINK_320	320	8	54.79	54.70	60.93	61.00	0.0002	B-3
LINK_321	333	8	54.70	54.08	61.00	60.50	0.0018	B-3
LINK_322	160	8	54.08	53.44	60.50	60.32	0.0040	B-3
LINK_323	295	8	53.44	53.07	60.32	59.85	0.0012	B-3
LINK_324	301	8	53.07	52.47	59.85	59.79	0.0019	B-3
LINK_325	511	8	50.23	49.30	59.79	59.00	0.0018	B-3
LINK_326	490	8	49.30	48.46	59.00	58.20	0.0017	B-3
LINK_327	53	10	48.46	48.35	58.20	58.19	0.0020	B-3
LINK_328	257	10	48.35	46.39	58.19	57.11	0.0076	B-3
LINK_329	92	8	54.21	53.81	59.96	60.23	0.0043	B-3
LINK_330	208	8	54.69	53.86	59.75	60.23	0.0039	B-3
LINK_331	47	8	53.86	53.81	60.52	60.23	0.0010	B-3
LINK_332	264	8	53.81	53.11	60.23	60.47	0.0026	B-3
LINK_333	280	8	53.11	52.22	60.47	61.22	0.0031	B-3
LINK_334	299	8	52.22	51.53	61.22	60.31	0.0023	B-3
LINK_335	287	8	51.53	50.64	60.31	59.72	0.0031	B-3
LINK_336	257	8	50.64	49.77	59.72	59.07	0.0033	B-3
LINK_337	235	8	49.77	47.70	59.07	59.01	0.0088	B-3
LINK_338	283	8	54.22	53.77	61.50	61.50	0.0015	B-3
LINK_339	404	8	53.77	53.13	61.50	61.60	0.0015	B-3
LINK_340	367	8	53.13	51.73	61.60	60.67	0.0038	B-3
LINK_341	413	8	51.73	50.52	60.67	59.79	0.0029	B-3
LINK_342	254	8	50.52	49.72	59.79	59.34	0.0031	B-3
LINK_343	242	8	49.72	48.80	59.34	59.25	0.0038	B-3





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 8

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_344	402	8	57.39	56.61	62.81	62.36	0.0019	B-3
LINK_345	468	8	56.61	55.77	62.36	61.66	0.0017	B-3
LINK_346	416	8	52.62	48.32	60.21	59.90	0.0103	B-3
LINK_347	415	8	57.93	56.00	62.88	62.54	0.0046	B-3
LINK_348	459	8	56.00	54.29	62.54	61.67	0.0037	B-3
LINK_349	410	8	54.29	52.35	61.67	60.85	0.0047	B-3
LINK_350	371	8	57.39	56.61	62.81	62.36	0.0021	B-3
LINK_351	427	8	56.61	55.77	62.36	61.66	0.0019	B-3
LINK_352	395	8	55.77	54.90	61.66	61.46	0.0022	B-3
LINK_353	134	8	54.90	52.95	61.46	61.71	0.0145	B-3
LINK_354	864	12	52.95	50.24	61.71	60.32	0.0031	B-3
LINK_355	429	12	50.24	48.32	60.32	59.90	0.0044	B-3
LINK_356	425	8	56.08	53.66	62.32	62.07	0.0056	B-3
LINK_357	440	8	53.66	52.00	62.07	61.22	0.0037	B-3
LINK_358	395	8	52.00	50.55	61.22	60.31	0.0036	B-3
LINK_359	504	8	57.72	56.00	63.32	62.00	0.0034	B-3
LINK_360	418	8	56.00	54.00	62.50	61.50	0.0047	B-3
LINK_361	349	8	54.00	52.42	61.50	60.85	0.0045	B-3
LINK_362	194	8	57.00	56.58	64.50	63.84	0.0021	B-2
LINK_363	188	8	60.12	58.31	64.99	64.62	0.0096	B-2
LINK_364	191	8	59.63	59.19	65.44	65.25	0.0023	B-2
LINK_365	160	8	59.77	59.03	65.26	65.25	0.0046	B-2
LINK_366	287	8	59.03	58.31	65.25	64.62	0.0025	B-2
LINK_367	298	8	58.31	57.42	64.62	64.25	0.0029	B-2
LINK_368	187	8	58.47	57.86	65.82	65.55	0.0032	B-2
LINK_369	178	8	59.42	58.88	66.18	65.83	0.0030	B-2
LINK_370	275	8	59.90	59.35	66.20	66.00	0.0020	B-2
LINK_371	173	8	59.35	58.88	66.00	65.83	0.0027	B-2
LINK_372	307	8	58.88	58.06	65.83	65.55	0.0026	B-2
LINK_373	268	8	57.86	57.58	65.55	65.06	0.0010	B-2
LINK_374	364	8	58.64	57.84	65.06	65.58	0.0022	B-2
LINK_375	324	8	57.84	56.05	65.58	64.30	0.0055	B-2
LINK_376	173	8	58.64	58.07	65.19	65.44	0.0032	B-2
LINK_377	332	8	58.07	57.06	65.44	65.04	0.0030	B-2
LINK_378	333	8	57.06	56.35	65.04	64.73	0.0021	B-2
LINK_379	344	8	58.94	57.92	66.15	65.60	0.0029	B-2
LINK_380	474	8	57.92	56.79	65.60	65.24	0.0023	B-2
LINK_381	347	12	56.79	56.09	65.24	64.73	0.0020	B-2
LINK_382	294	12	56.09	55.61	64.73	64.30	0.0016	B-2
LINK_383	321	12	55.61	55.00	64.30	63.95	0.0019	B-2
LINK_384	298	12	55.00	54.45	63.95	63.70	0.0018	B-2
LINK_385	167	8	59.49	59.16	64.80	64.64	0.0019	B-2
LINK_386	323	8	59.16	58.11	64.64	64.18	0.0032	B-2
LINK_387	341	8	58.11	56.81	64.18	63.95	0.0038	B-2
LINK_388	155	12	54.45	54.03	63.70	63.59	0.0027	B-2
LINK_389	308	8	58.83	56.73	64.52	63.85	0.0068	B-2
LINK_390	353	8	56.75	54.64	63.85	63.70	0.0059	B-2
LINK_391	426	8	55.63	54.64	63.00	63.70	0.0023	B-2
LINK_392	455	8	55.63	53.96	63.00	62.12	0.0036	B-2



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE PHYSICAL DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SEWER COLLECTION SYSTEM

10/10/94  
 PAGE 9

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_393	396	8	53.96	50.68	62.12	61.79	0.0082	B-2
LINK_394	320	8	51.89	50.68	62.16	61.79	0.0037	B-2
LINK_395	139	8	50.68	50.32	61.79	61.55	0.0025	B-2
LINK_396	367	8	56.81	56.18	63.95	63.20	0.0017	B-2
LINK_397	463	8	56.18	54.38	63.20	62.27	0.0038	B-2
LINK_398	395	8	54.38	52.16	62.27	62.13	0.0056	B-2
LINK_399	397	8	59.58	57.78	64.77	64.01	0.0045	B-2
LINK_400	448	8	57.78	56.04	64.01	63.32	0.0038	B-2
LINK_401	354	8	59.87	58.49	65.24	64.73	0.0039	B-2
LINK_402	458	8	58.49	57.08	64.73	64.00	0.0030	B-2
LINK_403	325	8	57.00	56.04	64.00	63.32	0.0029	B-2
LINK_404	302	8	56.04	54.88	63.32	62.80	0.0038	B-2
LINK_405	376	8	58.41	56.65	64.47	63.69	0.0046	B-2
LINK_406	467	8	56.65	54.88	63.69	62.80	0.0037	B-2
LINK_407	417	8	54.88	53.21	62.80	62.82	0.0040	B-2
LINK_408	228	8	54.43	53.97	63.20	63.11	0.0020	B-2
LINK_409	182	8	53.97	53.21	63.11	62.82	0.0041	B-2
LINK_410	310	8	53.21	51.89	62.82	62.16	0.0042	B-2
LINK_411	327	8	58.21	57.42	64.70	64.25	0.0024	B-2
LINK_412	292	8	57.42	56.58	64.25	63.84	0.0028	B-2
LINK_413	327	8	56.58	55.65	63.84	63.43	0.0028	B-2
LINK_414	336	8	55.65	54.48	63.43	63.45	0.0034	B-2
LINK_415	145	8	54.48	54.03	63.45	63.59	0.0031	B-2
LINK_416	421	12	54.03	52.62	63.59	63.22	0.0033	B-2
LINK_417	462	12	52.62	51.53	63.22	62.15	0.0023	B-2
LINK_418	396	12	51.53	50.32	62.15	61.55	0.0030	B-2
LINK_419	218	8	60.11	59.15	66.22	66.44	0.0044	B-2
LINK_420	209	8	60.43	59.83	67.07	66.85	0.0028	B-2
LINK_421	225	8	61.44	60.75	67.49	67.30	0.0030	B-2
LINK_422	222	8	62.23	61.55	67.86	67.86	0.0030	B-2
LINK_423	300	8	61.55	60.75	67.68	67.30	0.0026	B-2
LINK_424	172	8	60.75	60.20	67.30	67.10	0.0032	B-2
LINK_425	147	8	60.20	59.83	67.10	66.85	0.0025	B-2
LINK_426	243	8	59.83	59.15	66.85	66.44	0.0028	B-2
LINK_427	496	8	59.08	58.10	66.44	65.98	0.0019	B-2
LINK_428	488	8	58.10	57.34	65.98	65.38	0.0015	B-2
LINK_429	431	8	60.58	59.59	64.76	65.28	0.0023	B-2
LINK_430	411	8	59.59	58.50	65.28	66.00	0.0026	B-2
LINK_431	350	8	59.33	58.60	65.01	65.18	0.0020	B-2
LINK_432	353	8	58.60	57.78	65.18	65.76	0.0023	B-2
LINK_433	347	8	59.05	58.14	64.58	64.81	0.0026	B-2
LINK_434	358	8	58.14	57.34	64.81	65.38	0.0022	B-2
LINK_435	378	8	60.94	60.02	65.60	65.77	0.0024	B-2
LINK_436	340	8	60.02	59.34	65.77	66.27	0.0020	B-2
LINK_437	285	8	59.34	58.50	66.27	66.00	0.0029	B-2
LINK_438	284	8	58.50	57.78	66.00	65.76	0.0025	B-2
LINK_439	291	12	57.78	57.15	65.76	65.38	0.0021	B-2
LINK_440	293	12	57.15	56.79	65.38	65.24	0.0012	B-2
LINK_441	361	8	62.66	61.93	67.66	66.97	0.0020	B-1





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE PHYSICAL DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SEWER COLLECTION SYSTEM

10/10/94  
 PAGE 10

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_442	377	8	61.93	61.18	66.97	66.60	0.0019	B-1
LINK_443	340	8	61.18	57.43	66.60	66.88	0.0110	B-1
LINK_444	279	8	57.43	56.99	68.88	66.70	0.0015	B-1
LINK_445	227	8	56.99	56.36	66.70	66.27	0.0027	B-1
LINK_446	272	8	56.36	55.72	66.27	66.02	0.0023	B-1
LINK_447	394	8	63.57	62.85	68.01	67.70	0.0018	B-1
LINK_448	336	8	62.85	62.15	67.70	67.36	0.0020	B-1
LINK_449	332	8	62.15	59.68	67.36	67.64	0.0074	B-1
LINK_450	261	8	59.68	58.80	67.64	66.50	0.0033	B-1
LINK_451	227	8	58.80	58.13	66.55	65.67	0.0029	B-1
LINK_452	293	8	58.13	56.97	65.67	66.22	0.0039	B-1
LINK_453	154	8	58.15	56.23	65.66	65.59	0.0124	B-1
LINK_454	447	8	63.49	62.77	67.99	67.23	0.0016	B-1
LINK_455	328	8	62.77	62.04	67.23	67.07	0.0022	B-1
LINK_456	337	8	62.04	58.77	67.07	67.25	0.0097	B-1
LINK_457	207	8	58.77	57.76	67.25	67.59	0.0048	B-1
LINK_458	296	8	57.76	56.97	67.59	66.22	0.0026	B-1
LINK_459	174	8	56.97	56.56	66.22	65.36	0.0023	B-1
LINK_460	214	8	56.56	56.23	65.36	65.59	0.0015	B-1
LINK_461	313	8	56.23	55.68	65.59	65.32	0.0017	B-1
LINK_462	250	8	55.68	55.00	65.32	65.66	0.0027	B-1
LINK_463	416	8	62.44	61.61	67.05	66.61	0.0020	B-1
LINK_464	414	8	61.61	57.62	66.61	66.98	0.0096	B-1
LINK_465	393	8	57.62	56.80	66.98	66.48	0.0020	B-1
LINK_466	319	8	56.80	56.11	66.48	66.32	0.0021	B-1
LINK_467	209	8	56.11	55.72	66.32	66.02	0.0018	B-1
LINK_468	145	8	55.72	55.63	66.02	65.85	0.0006	B-1
LINK_469	224	8	55.63	55.00	65.85	65.66	0.0028	B-1
LINK_470	369	8	55.63	54.12	65.66	65.26	0.0040	B-1
LINK_471	191	8	52.73	52.22	57.57	56.59	0.0026	C-4
LINK_472	320	8	53.58	52.73	58.34	57.57	0.0026	C-4
LINK_473	231	8	47.30	46.83	52.35	52.82	0.0020	C-5
LINK_474	323	8	46.83	46.15	52.82	53.28	0.0021	C-5
LINK_475	361	8	46.15	45.47	53.28	53.60	0.0018	C-5
LINK_476	141	8	45.47	45.20	53.60	53.70	0.0019	C-5
LINK_477	332	8	46.76	46.16	53.48	53.78	0.0018	C-5
LINK_478	296	8	46.16	45.56	53.78	53.92	0.0020	C-5
LINK_479	178	8	45.56	45.20	53.92	53.70	0.0020	C-5
LINK_480	195	8	45.20	44.90	53.70	53.10	0.0015	C-5
LINK_481	125	8	44.90	44.69	53.10	53.10	0.0016	C-5
LINK_482	227	8	44.69	44.20	53.10	53.51	0.0021	C-5
LINK_483	45	8	44.20	44.05	53.51	53.51	0.0033	C-5
LINK_484	629	8	44.05	43.28	53.51	52.03	0.0012	C-5
LINK_485	322	8	43.28	40.50	52.03	53.00	0.0086	C-5
LINK_486	340	6	54.87	51.66	60.45	60.49	0.0094	C-2
LINK_487	110	6	56.53	55.26	61.55	61.29	0.0115	C-2
LINK_488	313	6	55.26	52.12	61.29	61.32	0.0100	C-2
LINK_489	474	8	56.00	55.24	61.40	61.68	0.0016	C-2
LINK_490	469	8	56.01	55.63	60.85	61.39	0.0008	C-2





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

10/10/94

## SEWER PIPELINE PHYSICAL DATA REPORT

PAGE 11

FILE RUN: SY\_URUN1

## ULTIMATE SEWER COLLECTION SYSTEM

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_491	527	6	55.63	54.77	61.39	61.77	0.0016	C-2
LINK_492	116	6	54.77	54.07	61.77	61.76	0.0060	C-2
LINK_493	272	6	54.07	52.61	61.76	61.64	0.0053	C-2
LINK_494	453	8	55.24	54.09	61.68	62.34	0.0025	C-2
LINK_495	166	8	54.09	53.87	62.34	62.52	0.0013	C-2
LINK_496	266	8	53.87	53.35	62.52	62.85	0.0019	C-2
LINK_497	155	10	53.55	53.35	62.61	62.85	0.0012	C-2
LINK_498	319	10	53.35	52.61	62.85	61.64	0.0023	C-2
LINK_499	313	10	52.61	52.12	61.64	61.32	0.0015	C-2
LINK_500	308	10	52.12	51.49	61.32	60.94	0.0020	C-2
LINK_501	152	10	51.49	51.33	60.94	60.70	0.0010	C-2
LINK_502	332	10	51.33	50.63	60.70	61.28	0.0021	C-2
LINK_503	350	6	55.46	52.89	60.75	61.01	0.0073	C-2
LINK_504	387	6	52.89	50.50	61.01	61.11	0.0061	C-2
LINK_505	357	6	58.86	57.52	63.01	62.52	0.0037	C-2
LINK_506	313	6	57.52	53.92	62.52	61.54	0.0115	C-2
LINK_507	318	6	53.92	50.63	61.54	61.28	0.0103	C-2
LINK_508	169	10	50.63	50.50	61.28	61.11	0.0007	C-2
LINK_509	182	10	50.50	50.19	61.11	60.62	0.0017	C-2
LINK_510	230	10	50.19	49.82	60.62	61.28	0.0016	C-2
LINK_511	82	8	59.04	58.91	62.98	62.56	0.0015	C-2
LINK_512	263	8	59.20	59.04	62.50	62.56	0.0006	C-2
LINK_513	296	8	58.91	58.42	62.56	64.19	0.0016	C-2
LINK_514	313	8	58.42	57.65	64.19	62.31	0.0024	C-2
LINK_515	377	8	59.45	58.56	62.91	62.65	0.0023	C-2
LINK_516	266	8	58.36	57.65	62.65	62.31	0.0026	C-2
LINK_517	168	8	57.65	56.97	62.31	61.94	0.0040	C-2
LINK_518	208	8	56.97	56.32	61.94	62.20	0.0031	C-2
LINK_519	346	8	56.32	55.56	62.20	62.31	0.0022	C-2
LINK_520	292	8	55.56	54.77	62.31	62.56	0.0027	C-2
LINK_521	405	8	57.53	56.55	62.67	63.20	0.0024	C-2
LINK_522	284	8	56.55	55.76	63.20	63.17	0.0027	C-2
LINK_523	381	8	58.10	57.65	63.50	63.46	0.0011	C-2
LINK_524	349	8	57.65	56.76	63.46	63.81	0.0025	C-2
LINK_525	277	8	58.29	57.40	64.32	64.10	0.0032	C-2
LINK_526	326	8	57.40	56.76	64.10	63.81	0.0019	C-2
LINK_527	371	8	56.76	55.76	63.81	63.17	0.0027	C-2
LINK_528	372	8	55.76	54.77	63.17	62.56	0.0026	C-2
LINK_529	202	8	54.77	54.20	62.56	62.62	0.0028	C-2
LINK_530	123	8	54.20	53.81	62.62	62.61	0.0031	C-2
LINK_531	342	8	56.90	53.55	63.05	62.61	0.0098	C-2
LINK_532	213	6	58.81	56.90	63.56	63.05	0.0089	C-2
LINK_533	80	8	57.45	57.34	62.65	62.65	0.0013	C-1
LINK_534	326	8	58.21	57.76	63.96	63.26	0.0013	C-1
LINK_535	281	8	57.76	57.34	63.26	62.65	0.0014	C-1
LINK_536	582	8	57.34	56.40	62.65	62.49	0.0016	C-1
LINK_537	281	8	56.40	56.02	62.49	62.94	0.0013	C-1
LINK_538	137	8	59.20	59.07	65.20	65.10	0.0009	C-1
LINK_539	210	8	60.29	58.75	65.53	65.10	0.0073	C-1



## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

10/10/94

## SEWER PIPELINE PHYSICAL DATA REPORT

PAGE 12

FILE RUN: SY\_URUN1

## ULTIMATE SEWER COLLECTION SYSTEM

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_540	273	8	60.42	59.48	65.14	64.73	0.0034	C-1
LINK_541	262	8	60.53	59.93	64.57	64.24	0.0022	C-1
LINK_542	161	8	60.20	59.93	64.00	64.24	0.0016	C-1
LINK_543	297	8	59.93	59.48	64.24	64.73	0.0015	C-1
LINK_544	163	8	59.48	59.07	64.73	64.87	0.0025	C-1
LINK_545	140	8	59.07	58.75	64.87	65.10	0.0022	C-1
LINK_546	302	8	58.75	57.98	65.10	64.66	0.0025	C-1
LINK_547	553	8	58.64	57.76	64.03	65.06	0.0015	C-1
LINK_548	82	8	58.08	57.76	65.06	65.93	0.0039	C-1
LINK_549	246	8	57.76	57.45	65.93	64.36	0.0012	C-1
LINK_550	440	8	58.29	57.67	63.50	64.15	0.0014	C-1
LINK_551	133	8	57.76	57.45	64.15	64.36	0.0023	C-1
LINK_552	123	8	57.45	57.17	64.36	64.29	0.0022	C-1
LINK_553	183	8	57.17	56.94	64.29	64.07	0.0012	C-1
LINK_554	168	8	59.12	58.75	65.08	65.11	0.0022	C-1
LINK_555	271	8	58.20	57.49	64.72	64.52	0.0026	C-1
LINK_556	358	8	58.78	58.20	65.05	64.72	0.0016	C-1
LINK_557	301	8	59.34	58.78	65.39	65.05	0.0018	C-1
LINK_558	119	8	59.23	58.68	65.33	65.04	0.0046	C-1
LINK_559	124	8	59.90	59.37	65.65	65.47	0.0042	C-1
LINK_560	129	8	60.24	59.97	65.87	65.87	0.0020	C-1
LINK_561	303	8	58.68	57.98	65.04	64.66	0.0023	C-1
LINK_562	309	8	59.37	58.68	65.47	65.04	0.0022	C-1
LINK_563	323	8	59.97	59.37	65.87	65.47	0.0018	C-1
LINK_564	275	8	59.97	59.34	65.87	65.39	0.0022	C-1
LINK_565	278	8	59.34	58.75	65.39	65.11	0.0021	C-1
LINK_566	173	8	58.75	58.46	65.11	64.67	0.0016	C-1
LINK_567	406	8	58.46	57.66	64.67	64.45	0.0019	C-1
LINK_568	348	8	57.66	56.94	64.45	64.07	0.0020	C-1
LINK_569	111	8	58.49	57.98	64.97	64.66	0.0045	C-1
LINK_570	295	8	57.98	57.49	64.66	64.52	0.0016	C-1
LINK_571	310	8	57.49	56.94	64.52	64.07	0.0017	C-1
LINK_572	146	8	56.94	56.32	64.07	63.68	0.0042	C-1
LINK_573	484	8	56.32	55.58	63.68	63.20	0.0015	C-1
LINK_574	382	8	57.23	56.44	63.69	64.32	0.0020	C-1
LINK_575	417	8	56.44	55.40	64.32	64.40	0.0024	C-1
LINK_576	317	8	55.40	54.59	64.40	64.43	0.0025	C-1
LINK_577	330	8	57.00	56.27	62.20	62.17	0.0022	C-1
LINK_578	343	8	56.27	56.02	62.16	62.94	0.0007	C-1
LINK_579	345	8	56.02	55.63	62.94	63.20	0.0011	C-1
LINK_580	362	8	55.58	54.91	63.20	63.56	0.0018	C-1
LINK_581	262	8	54.91	54.48	63.56	63.80	0.0016	C-1
LINK_582	345	8	54.48	54.07	63.80	64.43	0.0011	C-1
LINK_583	234	8	54.07	53.74	64.43	64.51	0.0014	C-1
LINK_584	262	8	53.74	53.47	64.51	64.82	0.0010	C-1
LINK_585	130	8	47.27	46.77	52.10	52.15	0.0038	C-6
LINK_586	451	8	46.77	45.20	52.15	51.60	0.0034	C-6
LINK_587	80	8	45.20	44.85	51.60	50.83	0.0043	C-6
LINK_588	258	8	46.93	45.83	51.90	51.39	0.0042	C-6



## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 13

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_589	310	8	45.83	44.76	51.39	50.80	0.0034	C-6
LINK_590	343	8	44.76	43.82	50.80	50.36	0.0027	C-6
LINK_591	349	8	43.82	42.80	50.36	49.68	0.0029	C-6
LINK_592	268	8	47.25	46.15	52.24	51.68	0.0041	C-6
LINK_593	330	8	46.15	45.08	51.68	51.18	0.0032	C-6
LINK_594	299	8	45.08	44.05	51.18	50.70	0.0034	C-6
LINK_595	374	8	44.05	43.08	50.70	50.12	0.0025	C-6
LINK_596	323	10	43.73	43.08	50.43	50.12	0.0020	C-6
LINK_597	323	10	43.08	42.30	50.12	49.68	0.0024	C-6
LINK_598	229	8	47.38	46.47	52.59	52.07	0.0039	C-6
LINK_599	336	8	46.47	45.56	52.07	51.58	0.0027	C-6
LINK_600	305	8	45.56	44.65	51.58	51.03	0.0029	C-6
LINK_601	347	8	44.65	43.73	51.03	50.43	0.0026	C-6
LINK_602	283	8	48.42	47.41	52.98	52.49	0.0035	C-6
LINK_603	324	8	47.41	46.51	52.49	51.90	0.0027	C-6
LINK_604	346	8	46.51	45.63	51.90	51.45	0.0025	C-6
LINK_605	296	8	45.63	44.70	51.45	50.83	0.0031	C-6
LINK_606	307	8	44.70	43.73	50.83	50.43	0.0031	C-6
LINK_607	169	10	42.30	41.95	49.68	49.60	0.0020	C-6
LINK_608	196	10	41.95	41.83	49.50	52.04	0.0006	C-6
LINK_609	211	8	40.20	39.95	49.80	49.53	0.0011	D-5
LINK_610	320	8	41.44	40.12	49.81	49.46	0.0041	D-5
LINK_611	300	8	42.75	41.44	50.17	49.81	0.0043	D-5
LINK_612	305	8	42.06	41.40	49.86	49.50	0.0021	D-5
LINK_613	316	8	41.40	40.74	49.50	49.15	0.0020	D-5
LINK_614	306	8	40.72	40.12	49.15	49.46	0.0019	D-5
LINK_615	19	8	40.12	39.95	49.46	49.53	0.0089	D-5
LINK_616	93	8	39.95	39.55	49.53	49.70	0.0043	D-5
LINK_617	89	8	39.55	39.15	49.70	49.96	0.0044	D-5
LINK_618	160	8	39.15	35.10	49.96	50.66	0.0253	D-5
LINK_619	134	8	44.50	44.07	48.00	47.94	0.0032	F-3
LINK_620	142	8	44.50	44.07	47.90	47.94	0.0030	F-3
LINK_621	72	8	44.07	43.73	47.94	48.26	0.0047	F-3
LINK_622	337	8	43.73	42.74	48.26	48.23	0.0029	F-3
LINK_623	409	8	42.74	41.94	48.23	48.54	0.0019	F-3
LINK_624	406	8	41.94	40.88	48.54	49.52	0.0026	F-3
LINK_625	357	8	44.19	43.38	48.52	48.89	0.0022	F-3
LINK_626	401	8	43.38	42.70	48.89	49.43	0.0017	F-3
LINK_627	416	8	42.70	41.86	49.43	50.13	0.0020	F-3
LINK_628	437	8	43.30	41.86	50.65	50.13	0.0033	F-3
LINK_629	446	8	41.86	40.88	50.13	49.52	0.0022	F-3
LINK_630	453	8	40.88	39.90	49.52	49.20	0.0021	F-3
LINK_631	263	8	42.92	42.39	48.20	47.87	0.0020	F-3
LINK_632	271	8	43.53	43.00	48.20	47.87	0.0019	F-3
LINK_633	308	8	43.00	42.39	47.87	47.87	0.0019	F-3
LINK_634	296	8	42.39	41.77	47.87	47.60	0.0020	F-3
LINK_635	298	8	41.77	41.10	47.60	48.35	0.0022	F-3
LINK_636	361	8	41.10	40.45	48.35	48.89	0.0018	F-3
LINK_637	216	8	40.45	39.90	48.89	49.20	0.0025	F-3





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 14

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_638	375	8	43.31	42.41	47.85	47.85	0.0024	F-3
LINK_639	415	8	42.41	41.55	47.85	48.42	0.0020	F-3
LINK_640	406	8	41.55	39.90	48.42	49.20	0.0040	F-3
LINK_641	221	8	39.90	38.95	49.20	49.72	0.0043	F-3
LINK_642	552	8	38.95	37.79	49.72	50.30	0.0021	F-3
LINK_643	365	8	49.37	48.29	53.63	53.53	0.0029	F-3
LINK_644	597	8	48.29	47.38	53.53	53.50	0.0015	F-3
LINK_645	349	8	47.38	46.62	53.50	53.68	0.0021	F-3
LINK_646	200	8	49.79	49.35	54.10	54.50	0.0022	F-3
LINK_647	225	8	49.35	48.70	54.50	54.10	0.0028	F-3
LINK_648	217	8	48.70	48.62	54.10	53.94	0.0003	F-3
LINK_649	320	8	48.62	48.10	53.94	54.34	0.0016	F-3
LINK_650	191	8	48.10	47.58	54.34	54.27	0.0027	F-3
LINK_651	156	8	47.58	47.18	54.27	54.08	0.0025	F-3
LINK_652	379	8	47.18	46.22	54.08	53.68	0.0025	F-3
LINK_653	365	8	46.22	43.35	53.68	53.24	0.0078	F-3
LINK_654	119	8	55.46	55.10	59.63	59.14	0.0030	C-3
LINK_655	185	8	55.01	54.62	59.14	59.22	0.0021	C-3
LINK_656	180	8	57.17	57.12	61.57	61.30	0.0002	C-3
LINK_657	215	8	57.12	57.08	61.30	61.08	0.0001	C-3
LINK_658	291	8	57.08	56.82	61.08	60.37	0.0008	C-3
LINK_659	482	8	56.64	55.78	61.61	60.36	0.0017	C-3
LINK_660	425	8	55.76	54.85	60.35	59.65	0.0021	C-3
LINK_661	296	8	57.46	56.82	61.55	60.37	0.0021	C-3
LINK_662	190	8	56.82	56.51	60.37	60.90	0.0016	C-3
LINK_663	416	8	56.51	55.55	60.90	59.96	0.0023	C-3
LINK_664	153	8	55.55	55.16	59.96	59.81	0.0025	C-3
LINK_665	187	8	55.16	54.85	59.81	59.65	0.0016	C-3
LINK_666	154	8	54.85	54.62	59.65	59.22	0.0014	C-3
LINK_667	180	8	54.62	54.26	59.22	58.91	0.0020	C-3
LINK_668	335	8	53.83	52.71	59.20	59.16	0.0033	C-3
LINK_669	80	8	54.32	53.83	58.81	59.20	0.0061	C-3
LINK_670	60	8	54.26	54.32	58.91	58.81	-0.0010	C-3
LINK_671	432	8	55.08	54.26	59.65	58.91	0.0019	C-3
LINK_672	472	8	56.01	55.08	60.11	59.65	0.0019	C-3
LINK_673	82	8	55.24	54.73	60.42	60.29	0.0062	C-3
LINK_674	138	8	54.58	54.23	60.18	59.94	0.0025	C-3
LINK_675	128	8	54.64	54.22	59.83	59.48	0.0032	C-3
LINK_676	129	8	54.22	53.97	59.48	59.81	0.0019	C-3
LINK_677	51	8	55.30	53.63	61.78	59.01	0.0327	C-3
LINK_678	51	8	53.33	53.00	62.16	61.78	0.0064	C-3
LINK_679	89	8	53.49	53.33	62.31	62.16	0.0018	C-3
LINK_680	186	8	53.97	53.49	59.81	62.31	0.0025	C-3
LINK_681	103	8	54.23	53.97	59.94	59.81	0.0025	C-3
LINK_682	79	8	54.38	54.23	60.06	59.94	0.0019	C-3
LINK_683	76	8	54.73	54.38	60.29	60.06	0.0046	C-3
LINK_684	220	8	55.20	54.73	60.99	60.29	0.0021	C-3
LINK_685	250	8	55.55	55.20	60.75	60.99	0.0014	C-3
LINK_686	254	8	46.42	45.89	52.48	52.79	0.0020	C-3





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

10/10/94

## SEWER PIPELINE PHYSICAL DATA REPORT

PAGE 15

FILE RUN: SY\_URUN1

## ULTIMATE SEWER COLLECTION SYSTEM

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_687	475	8	48.95	48.07	53.49	53.04	0.0018	C-3
LINK_688	476	8	48.07	46.80	53.04	52.89	0.0026	C-3
LINK_689	84	8	49.23	49.06	54.50	54.23	0.0020	C-3
LINK_690	205	8	48.82	48.14	54.23	53.80	0.0033	C-3
LINK_691	166	8	52.63	51.78	56.66	57.20	0.0051	C-3
LINK_692	353	8	51.78	51.00	57.20	56.39	0.0022	C-3
LINK_693	301	8	51.00	50.26	56.39	55.37	0.0024	C-3
LINK_694	128	8	50.26	50.13	55.37	55.24	0.0010	C-3
LINK_695	342	8	50.13	49.60	55.24	55.06	0.0015	C-3
LINK_696	185	8	49.60	49.25	55.06	54.60	0.0018	C-3
LINK_697	537	8	49.25	48.09	54.60	54.12	0.0021	C-3
LINK_698	77	8	48.09	47.76	54.12	53.80	0.0042	C-3
LINK_699	460	8	47.76	46.54	53.80	53.74	0.0026	C-3
LINK_700	582	8	53.37	52.25	57.86	56.60	0.0019	C-3
LINK_701	374	8	52.25	51.57	56.60	56.11	0.0018	C-3
LINK_702	319	8	51.57	50.93	56.11	55.39	0.0020	C-3
LINK_703	267	8	50.93	50.44	55.39	55.20	0.0018	C-3
LINK_704	172	8	50.44	50.07	55.20	55.33	0.0021	C-3
LINK_705	473	8	50.07	49.41	55.33	55.19	0.0014	C-3
LINK_706	266	8	49.41	48.49	55.19	54.84	0.0034	C-3
LINK_707	316	8	53.59	53.06	58.25	57.71	0.0016	C-3
LINK_708	282	8	53.06	52.77	57.71	57.53	0.0010	C-3
LINK_709	423	8	52.77	51.85	57.53	57.19	0.0021	C-3
LINK_710	329	8	51.85	51.06	57.19	56.30	0.0024	C-3
LINK_711	484	8	51.06	50.02	56.30	55.31	0.0021	C-3
LINK_712	472	8	50.02	48.91	55.31	55.02	0.0023	C-3
LINK_713	297	8	54.94	54.28	58.63	58.08	0.0022	C-3
LINK_714	285	8	54.24	53.48	58.08	57.73	0.0026	C-3
LINK_715	343	8	53.48	52.91	57.73	57.07	0.0016	C-3
LINK_716	362	8	52.91	51.91	57.07	57.13	0.0027	C-3
LINK_717	565	8	51.91	50.53	57.13	55.78	0.0024	C-3
LINK_718	463	8	50.53	49.66	55.78	55.56	0.0018	C-3
LINK_719	324	8	51.50	50.85	57.00	56.03	0.0020	C-3
LINK_720	200	8	50.85	50.00	56.03	56.29	0.0042	C-3
LINK_721	331	8	54.92	54.03	59.83	58.75	0.0026	C-3
LINK_722	353	8	54.03	53.51	58.75	58.81	0.0014	C-3
LINK_723	336	8	53.51	53.02	58.81	58.38	0.0014	C-3
LINK_724	402	8	53.02	52.30	58.38	58.35	0.0017	C-3
LINK_725	328	8	54.35	53.82	59.27	58.51	0.0016	C-3
LINK_726	355	8	53.82	53.05	58.51	58.20	0.0021	C-3
LINK_727	334	8	53.05	52.27	58.20	57.76	0.0023	C-3
LINK_728	410	8	52.27	51.68	57.76	57.96	0.0014	C-3
LINK_729	411	8	50.54	50.33	57.24	56.60	0.0005	C-3
LINK_730	629	8	51.07	49.99	56.05	55.14	0.0017	D-2
LINK_731	388	8	49.99	48.91	55.14	54.85	0.0027	D-2
LINK_732	418	8	48.91	47.80	54.85	54.91	0.0026	D-2
LINK_733	429	8	47.80	46.92	54.91	54.82	0.0020	D-2
LINK_734	451	8	46.92	45.83	54.82	55.00	0.0024	D-2
LINK_735	326	8	45.83	44.82	55.00	54.28	0.0031	D-2



## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 16

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_736	506	8	51.05	49.55	55.33	54.88	0.0029	D-2
LINK_737	461	8	49.55	48.46	54.88	54.94	0.0023	D-2
LINK_738	471	8	48.56	47.23	54.94	54.83	0.0028	D-2
LINK_739	492	8	47.23	46.01	54.83	54.77	0.0024	D-2
LINK_740	406	8	46.01	44.96	54.77	54.95	0.0025	D-2
LINK_741	294	8	44.96	44.06	54.95	54.06	0.0030	D-2
LINK_742	527	8	50.34	49.04	54.68	54.25	0.0024	D-2
LINK_743	473	8	49.04	47.89	54.25	54.94	0.0024	D-2
LINK_744	453	8	47.89	46.72	54.94	54.42	0.0025	D-2
LINK_745	432	8	46.72	45.37	54.42	54.22	0.0031	D-2
LINK_746	457	8	45.37	44.14	54.22	53.83	0.0026	D-2
LINK_747	306	8	44.14	42.99	53.83	53.85	0.0037	D-2
LINK_748	188	8	50.27	49.79	54.33	54.67	0.0025	D-2
LINK_749	256	8	49.79	49.29	54.67	54.71	0.0019	D-2
LINK_750	199	8	49.29	48.87	54.71	54.23	0.0021	D-2
LINK_751	369	8	48.87	48.14	54.23	54.34	0.0019	D-2
LINK_752	303	8	48.14	47.84	54.34	54.14	0.0009	D-2
LINK_753	252	8	47.84	47.44	54.14	54.02	0.0015	D-2
LINK_754	287	8	47.44	46.45	54.02	54.13	0.0034	D-2
LINK_755	114	8	46.45	46.30	54.13	54.03	0.0013	D-2
LINK_756	175	8	46.30	45.10	54.03	53.82	0.0068	D-2
LINK_757	206	8	46.10	45.87	53.82	54.27	0.0011	D-2
LINK_758	300	8	45.87	44.83	54.27	53.73	0.0034	D-2
LINK_759	203	8	47.27	46.73	53.93	54.43	0.0026	D-2
LINK_760	324	8	46.73	46.36	54.43	54.12	0.0011	D-2
LINK_761	227	8	46.36	45.79	54.12	53.68	0.0025	D-2
LINK_762	262	8	45.79	45.45	53.68	54.23	0.0013	D-2
LINK_763	276	8	45.45	42.05	54.23	54.48	0.0123	D-2
LINK_764	429	8	46.41	45.45	53.47	53.41	0.0022	D-2
LINK_765	536	8	45.45	44.70	53.41	52.91	0.0014	D-2
LINK_766	323	8	44.70	41.29	52.91	53.25	0.0105	D-2
LINK_767	324	8	55.30	53.11	58.75	58.72	0.0067	D-2
LINK_768	310	8	53.11	52.14	58.72	58.71	0.0031	D-2
LINK_769	654	8	52.14	50.94	58.71	58.29	0.0018	D-2
LINK_770	685	8	57.39	50.03	58.29	50.94	0.0107	D-2
LINK_771	330	8	50.03	48.75	57.39	56.51	0.0038	D-2
LINK_772	324	8	48.75	47.77	56.51	56.43	0.0030	D-2
LINK_773	272	8	53.98	52.42	58.28	57.88	0.0057	D-2
LINK_774	356	8	52.42	51.45	57.88	57.89	0.0027	D-2
LINK_775	656	8	51.45	50.19	57.89	57.28	0.0019	D-2
LINK_776	695	8	50.19	49.21	57.28	56.25	0.0014	D-2
LINK_777	338	8	49.21	48.05	56.25	55.23	0.0034	D-2
LINK_778	309	8	48.05	47.43	55.23	55.61	0.0020	D-2
LINK_779	634	8	52.56	51.36	57.60	57.21	0.0018	D-2
LINK_780	314	8	51.36	50.39	57.21	56.48	0.0030	D-2
LINK_781	352	8	50.39	49.55	56.48	55.50	0.0023	D-2
LINK_782	701	8	49.55	48.27	55.50	55.55	0.0018	D-2
LINK_783	316	8	48.27	47.36	55.55	55.26	0.0028	D-2
LINK_784	321	8	47.36	45.89	55.26	54.84	0.0045	D-2





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

## ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 17

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_785	627	8	52.56	50.96	56.78	56.42	0.0025	D-2
LINK_786	319	8	50.96	49.87	56.42	55.44	0.0034	D-2
LINK_787	369	8	49.87	49.04	55.44	55.10	0.0022	D-2
LINK_788	683	8	49.04	48.16	55.10	55.53	0.0012	D-2
LINK_789	336	8	48.16	47.24	55.53	54.76	0.0027	D-2
LINK_790	303	8	47.24	46.37	54.76	54.52	0.0028	D-2
LINK_791	355	8	52.10	50.88	58.62	58.04	0.0034	D-2
LINK_792	577	8	56.65	55.31	60.56	61.11	0.0023	D-2
LINK_793	648	8	55.31	54.35	61.11	60.84	0.0014	D-2
LINK_794	439	8	54.35	53.12	60.84	60.32	0.0028	D-2
LINK_795	552	8	53.12	52.10	60.32	58.62	0.0018	D-2
LINK_796	217	8	55.80	55.08	59.86	59.32	0.0033	D-2
LINK_797	370	8	55.05	54.44	59.32	60.24	0.0016	D-2
LINK_798	660	8	54.44	53.33	60.24	60.08	0.0016	D-2
LINK_799	386	8	53.33	52.02	60.08	59.37	0.0033	D-2
LINK_800	591	8	52.02	51.08	59.37	57.84	0.0015	D-2
LINK_801	370	8	51.08	48.79	57.84	57.27	0.0061	D-2
LINK_802	452	8	54.45	53.14	59.60	59.08	0.0029	D-2
LINK_803	527	8	53.14	51.72	59.08	58.10	0.0026	D-2
LINK_804	611	8	51.72	50.29	58.10	56.92	0.0023	D-2
LINK_805	345	8	50.29	48.79	56.92	56.80	0.0043	D-2
LINK_806	229	8	52.38	51.81	60.03	58.97	0.0024	D-1
LINK_807	225	8	57.82	57.08	61.81	61.46	0.0032	D-1
LINK_808	498	8	55.57	53.93	59.38	59.89	0.0032	D-1
LINK_809	305	8	56.42	55.59	60.80	60.51	0.0027	D-1
LINK_810	292	8	55.59	54.80	60.51	60.14	0.0027	D-1
LINK_811	351	8	55.90	54.78	60.77	60.39	0.0031	D-1
LINK_812	272	8	54.78	53.93	60.39	59.89	0.0031	D-1
LINK_813	237	8	57.11	56.29	61.24	60.90	0.0034	D-1
LINK_814	286	8	56.29	55.52	60.90	60.50	0.0026	D-1
LINK_815	311	8	57.08	56.36	61.46	61.18	0.0023	D-1
LINK_816	295	8	56.36	55.52	61.18	60.50	0.0028	D-1
LINK_817	296	8	55.52	54.80	60.50	60.14	0.0024	D-1
LINK_818	314	8	54.80	53.93	60.14	59.89	0.0027	D-1
LINK_819	192	8	53.93	53.10	59.89	60.11	0.0043	D-1
LINK_820	294	8	57.77	57.08	61.15	61.48	0.0023	D-1
LINK_821	331	8	57.08	56.45	61.48	61.77	0.0019	D-1
LINK_822	271	8	57.67	57.08	61.11	61.41	0.0021	D-1
LINK_823	342	8	57.08	56.45	61.41	61.77	0.0018	D-1
LINK_824	199	8	56.45	56.02	61.77	60.75	0.0021	D-1
LINK_825	127	8	56.66	56.49	62.03	62.03	0.0013	D-1
LINK_826	323	8	56.49	56.22	62.03	61.36	0.0008	D-1
LINK_827	180	8	56.22	55.88	61.36	60.75	0.0018	D-1
LINK_828	158	8	55.88	55.68	60.75	60.95	0.0012	D-1
LINK_829	250	8	55.68	55.03	60.95	61.03	0.0026	D-1
LINK_830	275	8	55.03	54.64	61.03	60.83	0.0014	D-1
LINK_831	514	8	54.64	53.49	60.83	60.24	0.0022	D-1
LINK_832	150	8	53.49	53.10	60.24	60.11	0.0026	D-1
LINK_833	319	8	53.10	52.52	60.11	60.18	0.0018	D-1





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 18

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_834	118	8	52.52	52.38	60.18	60.03	0.0011	D-1
LINK_835	459	8	57.56	56.09	62.41	62.75	0.0032	D-1
LINK_836	264	8	56.09	54.79	62.75	62.95	0.0049	D-1
LINK_837	313	8	54.79	53.51	62.95	62.65	0.0040	D-1
LINK_838	241	8	53.51	52.23	62.65	61.77	0.0053	D-1
LINK_839	445	8	56.97	55.78	61.90	62.29	0.0026	D-1
LINK_840	540	8	55.78	53.71	62.29	62.14	0.0038	D-1
LINK_841	294	8	53.71	52.86	62.14	61.49	0.0028	D-1
LINK_842	434	8	56.67	55.82	61.72	62.10	0.0019	D-1
LINK_843	327	8	55.82	55.01	62.10	62.20	0.0024	D-1
LINK_844	286	8	55.01	54.32	62.20	61.96	0.0024	D-1
LINK_845	232	8	54.32	53.60	61.96	61.34	0.0031	D-1
LINK_846	296	8	53.60	52.86	61.34	61.49	0.0025	D-1
LINK_847	332	8	52.86	52.23	61.49	61.77	0.0019	D-1
LINK_848	701	8	53.51	50.84	61.77	61.20	0.0038	D-1
LINK_849	420	8	50.84	50.03	61.20	61.54	0.0019	D-1
LINK_850	220	8	50.03	49.49	61.54	61.30	0.0024	D-1
LINK_851	131	8	53.62	53.26	61.90	62.00	0.0027	D-1
LINK_852	556	8	54.43	53.62	61.40	61.90	0.0014	D-1
LINK_853	278	8	53.26	52.92	62.00	62.85	0.0012	D-1
LINK_854	219	8	52.92	52.28	62.85	62.75	0.0029	D-1
LINK_855	551	8	53.95	61.60	62.20	61.60	-0.0130	D-1
LINK_856	309	8	53.01	52.28	61.60	62.75	0.0023	D-1
LINK_857	64	8	52.28	52.26	62.75	62.04	0.0003	D-1
LINK_858	72	8	52.26	51.42	62.04	62.77	0.0116	D-1
LINK_859	334	8	50.62	49.75	58.62	54.28	0.0026	E-2
LINK_860	552	8	49.75	44.01	54.28	54.18	0.0104	E-2
LINK_861	284	8	49.53	48.02	55.13	54.25	0.0053	E-2
LINK_862	381	8	48.02	47.38	54.25	53.93	0.0016	E-2
LINK_863	503	8	48.52	47.65	53.83	53.65	0.0017	E-2
LINK_864	49	8	46.58	42.74	53.65	53.71	0.0783	E-2
LINK_865	429	8	47.27	43.64	53.76	53.84	0.0084	E-2
LINK_866	180	8	44.00	43.38	53.75	53.47	0.0034	E-2
LINK_867	190	8	43.38	42.26	53.47	53.73	0.0058	E-2
LINK_868	308	8	50.71	49.81	56.30	55.76	0.0029	E-2
LINK_869	287	8	49.81	49.14	55.76	55.55	0.0023	E-2
LINK_870	117	8	49.14	48.91	55.55	55.30	0.0019	E-2
LINK_871	351	8	48.91	48.03	55.30	55.46	0.0025	E-2
LINK_872	269	8	48.03	45.17	55.46	55.25	0.0106	E-2
LINK_873	528	8	50.12	48.69	55.84	55.14	0.0027	E-2
LINK_874	175	8	48.69	48.37	55.14	54.92	0.0018	E-2
LINK_875	253	8	48.37	47.61	54.92	54.88	0.0030	E-2
LINK_876	360	8	47.61	44.45	54.88	54.64	0.0087	E-2
LINK_877	64	8	50.33	50.20	55.37	55.28	0.0020	E-2
LINK_878	343	8	50.20	47.17	55.28	54.81	0.0088	E-2
LINK_879	182	8	47.17	48.43	54.81	54.47	-0.0060	E-2
LINK_880	267	8	48.43	47.39	54.47	54.84	0.0039	E-2
LINK_881	342	8	47.39	43.98	54.84	54.45	0.0099	E-2
LINK_882	448	8	52.89	51.79	56.64	56.47	0.0024	E-2



PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_883	485	8	51.79	50.79	56.47	56.84	0.0020	E-2
LINK_884	237	8	52.88	52.50	57.32	57.28	0.0016	E-2
LINK_885	274	8	52.50	51.39	57.28	56.80	0.0040	E-2
LINK_886	199	8	51.39	50.79	56.80	56.84	0.0030	E-2
LINK_887	299	8	50.79	50.02	56.84	56.23	0.0025	E-2
LINK_888	344	8	50.79	49.09	56.23	55.84	0.0049	E-2
LINK_889	266	8	50.79	49.84	56.75	56.32	0.0035	E-2
LINK_890	441	8	49.84	49.09	56.32	55.83	0.0017	E-2
LINK_891	70	8	49.09	48.85	55.84	55.83	0.0034	E-2
LINK_892	324	8	48.85	48.25	55.83	56.35	0.0018	E-2
LINK_893	286	8	48.25	47.71	56.35	56.16	0.0018	E-2
LINK_894	333	8	45.00	44.35	53.00	53.15	0.0019	F-1
LINK_895	179	8	46.40	45.67	51.15	51.49	0.0040	F-1
LINK_896	254	8	45.67	44.48	51.49	51.50	0.0046	F-1
LINK_897	468	8	44.45	42.36	51.50	51.03	0.0044	F-1
LINK_898	325	8	48.53	45.87	53.17	52.30	0.0081	F-1
LINK_899	286	8	45.87	44.19	52.30	51.43	0.0058	F-1
LINK_900	407	6	44.00	43.35	53.00	52.75	0.0016	F-1
LINK_901	450	8	46.20	45.28	51.56	52.03	0.0020	F-1
LINK_902	446	8	45.28	44.65	52.03	52.74	0.0014	F-1
LINK_903	574	8	44.65	43.35	52.74	52.75	0.0022	F-1
LINK_904	208	6	44.80	44.00	53.00	53.00	0.0038	F-1
LINK_905	332	8	47.86	46.90	51.93	51.56	0.0028	F-1
LINK_906	493	8	46.90	46.08	51.56	52.66	0.0016	F-1
LINK_907	456	8	46.08	45.24	52.66	52.70	0.0018	F-1
LINK_908	477	8	45.24	44.01	52.70	53.19	0.0025	F-1
LINK_909	346	8	48.53	44.55	52.97	53.19	0.0115	F-1
LINK_910	193	8	44.01	43.99	53.19	53.15	0.0001	F-1
LINK_911	201	8	43.99	43.35	53.15	52.00	0.0031	F-1
LINK_912	369	8	43.35	42.56	52.75	51.43	0.0021	F-1
LINK_913	189	8	42.56	42.36	51.43	51.03	0.0010	F-1
LINK_914	159	8	42.36	41.88	51.03	50.90	0.0030	F-1
LINK_915	126	8	46.48	46.20	51.54	51.56	0.0022	F-1
LINK_916	184	8	47.76	47.35	52.44	51.86	0.0022	F-1
LINK_917	482	8	47.35	46.37	51.86	52.33	0.0020	F-1
LINK_918	467	8	46.37	45.45	52.33	52.90	0.0019	F-1
LINK_919	564	8	45.45	44.63	52.90	53.39	0.0014	F-1
LINK_920	221	8	48.00	47.38	53.50	53.39	0.0028	F-1
LINK_921	351	8	48.07	47.32	52.60	52.95	0.0021	F-1
LINK_922	533	8	47.32	46.31	52.95	53.47	0.0018	F-1
LINK_923	623	8	46.31	45.14	53.47	53.78	0.0018	F-1
LINK_924	327	8	48.48	47.51	54.85	54.71	0.0029	F-1
LINK_925	298	8	47.51	46.44	54.71	54.52	0.0035	F-1
LINK_926	383	8	49.20	48.83	54.26	54.15	0.0009	F-1
LINK_927	675	8	48.83	48.31	54.15	54.41	0.0007	F-1
LINK_928	448	8	48.31	47.94	54.41	53.59	0.0008	F-1
LINK_929	459	8	47.94	47.38	53.59	53.46	0.0012	F-1
LINK_930	316	8	48.61	47.68	53.29	53.50	0.0029	F-1
LINK_931	315	8	47.68	47.38	53.50	53.46	0.0009	F-1



## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

10/10/94

## SEWER PIPELINE PHYSICAL DATA REPORT

PAGE 20

FILE RUN: SY\_URUN1

## ULTIMATE SEWER COLLECTION SYSTEM

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_932	211	8	47.38	46.81	53.46	54.31	0.0027	F-1
LINK_933	227	8	46.81	46.44	54.31	54.52	0.0016	F-1
LINK_934	360	8	46.44	45.88	54.52	54.28	0.0015	F-1
LINK_935	376	8	45.88	45.14	54.28	53.78	0.0019	F-1
LINK_936	366	8	45.14	44.63	53.78	53.39	0.0013	F-1
LINK_937	376	8	44.63	44.01	53.39	53.19	0.0016	F-1
LINK_938	538	8	50.00	46.71	57.00	57.21	0.0061	E-2
LINK_939	573	8	51.86	47.41	56.76	57.94	0.0077	E-2
LINK_940	206	8	45.00	44.40	55.50	55.40	0.0029	G-1
LINK_941	227	15	44.40	44.14	55.40	56.44	0.0011	G-1
LINK_942	227	8	46.19	40.11	53.79	53.44	0.0267	G-1
LINK_943	406	8	48.77	47.87	53.56	53.32	0.0022	G-1
LINK_944	305	8	47.87	47.07	53.32	52.95	0.0026	G-1
LINK_945	330	8	47.07	46.23	52.95	52.80	0.0025	G-1
LINK_946	243	8	46.23	39.33	52.80	52.39	0.0284	G-1
LINK_947	345	8	47.66	46.60	52.92	52.27	0.0030	G-1
LINK_948	306	8	46.60	37.98	52.27	51.98	0.0281	G-1
LINK_949	262	8	45.00	44.04	51.16	50.80	0.0036	G-1
LINK_950	154	8	44.04	43.21	50.80	50.68	0.0053	G-1
LINK_951	409	8	43.55	42.86	55.68	54.02	0.0016	G-1
LINK_952	182	8	48.00	47.62	55.50	55.42	0.0020	G-1
LINK_953	451	8	47.62	46.35	55.42	55.76	0.0028	G-1
LINK_954	472	8	46.35	44.96	55.76	54.76	0.0029	G-1
LINK_955	443	8	44.96	43.43	54.76	54.89	0.0034	G-1
LINK_956	222	8	43.43	42.72	54.89	54.02	0.0032	G-1
LINK_957	313	8	42.72	42.21	54.02	54.90	0.0016	G-1
LINK_958	344	8	42.21	40.93	54.90	53.80	0.0037	G-1
LINK_959	250	8	48.68	45.72	53.32	53.39	0.0118	G-1
LINK_960	267	8	48.95	45.72	53.81	53.39	0.0121	G-1
LINK_961	69	8	45.72	46.18	53.39	53.15	-0.0060	G-1
LINK_962	357	8	47.78	47.04	54.30	53.74	0.0020	G-1
LINK_963	354	8	47.04	46.26	53.74	53.48	0.0022	G-1
LINK_964	257	8	46.26	46.18	53.48	53.15	0.0003	G-1
LINK_965	318	8	46.18	39.33	53.15	52.68	0.0215	G-1
LINK_966	398	10	39.67	38.26	49.61	49.78	0.0035	G-1
LINK_967	453	10	41.22	39.67	49.73	49.61	0.0034	G-1
LINK_968	436	10	38.26	36.67	49.78	49.70	0.0036	G-1
LINK_969	473	10	36.67	34.78	49.70	49.50	0.0040	G-1
LINK_970	445	8	41.29	40.58	50.50	50.39	0.0016	G-1
LINK_971	578	8	40.58	36.19	50.39	50.04	0.0076	G-1
LINK_972	376	8	49.33	48.30	53.77	53.58	0.0027	G-1
LINK_973	416	8	48.30	47.48	53.58	53.70	0.0019	G-1
LINK_974	379	8	47.48	46.14	53.70	52.69	0.0035	G-1
LINK_975	293	8	46.14	45.29	52.69	53.34	0.0029	G-1
LINK_976	469	8	45.29	40.11	53.34	53.44	0.0110	G-1
LINK_977	415	8	47.28	46.38	51.98	51.94	0.0021	G-1
LINK_978	458	8	46.38	45.33	51.94	52.33	0.0022	G-1
LINK_979	469	8	45.33	44.19	52.33	52.64	0.0024	G-1
LINK_980	590	8	44.19	38.76	52.64	52.39	0.0092	G-1





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

10/10/94

## SEWER PIPELINE PHYSICAL DATA REPORT

PAGE 21

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_981	192	8	47.45	46.63	52.73	52.34	0.0042	G-1
LINK_982	312	8	46.63	45.92	52.34	51.44	0.0022	G-1
LINK_983	394	8	45.92	44.32	51.44	51.98	0.0040	G-1
LINK_984	466	8	44.32	43.66	51.98	51.84	0.0014	G-1
LINK_985	576	8	43.66	37.98	51.84	51.98	0.0098	G-1
LINK_986	483	8	47.23	45.69	52.15	51.06	0.0031	G-1
LINK_987	403	8	45.69	44.62	51.06	51.31	0.0026	G-1
LINK_988	467	8	44.62	43.44	51.31	51.08	0.0025	G-1
LINK_989	586	8	43.44	37.16	51.08	51.63	0.0107	G-1
LINK_990	487	8	46.48	45.11	51.51	50.74	0.0028	G-1
LINK_991	407	8	45.11	44.05	50.74	50.70	0.0026	G-1
LINK_992	449	8	44.05	42.99	50.70	50.80	0.0023	G-1
LINK_993	592	8	42.99	36.75	50.80	51.34	0.0105	G-1
LINK_994	334	8	44.69	44.41	50.15	50.42	0.0008	G-1
LINK_995	398	8	44.41	43.35	50.42	49.49	0.0026	G-1
LINK_996	472	8	43.36	42.22	49.49	50.78	0.0024	G-1
LINK_997	582	8	42.22	41.05	50.78	50.83	0.0020	G-1
LINK_998	536	8	46.07	44.84	51.85	50.73	0.0022	1ST ST.
LINK_999	271	8	49.06	46.83	52.55	52.83	0.0082	G-1
LINK_1000	252	8	49.24	46.83	53.34	52.83	0.0095	G-1
LINK_1001	66	8	46.83	45.04	52.83	52.72	0.0271	G-1
LINK_1002	332	8	48.50	47.97	54.30	54.50	0.0016	G-1
LINK_1003	366	8	47.97	47.38	54.50	54.70	0.0016	G-1
LINK_1004	506	8	47.38	46.57	54.70	52.70	0.0016	G-1
LINK_1005	110	8	46.57	45.33	52.70	52.52	0.0112	G-1
LINK_1006	304	8	45.33	45.37	52.52	52.72	0.0000	G-1
LINK_1007	318	8	45.04	39.58	52.72	52.68	0.0171	G-1
LINK_1008	194	8	34.02	33.63	51.50	51.48	0.0020	2ND ST.
LINK_1009	372	8	47.82	46.79	50.92	50.07	0.0027	FAIRFIELD DR.
LINK_1010	465	8	46.79	45.95	50.07	49.72	0.0018	FAIRFIELD DR.
LINK_1011	257	8	48.45	44.46	52.60	51.99	0.0155	D-4
LINK_1012	315	8	48.77	46.37	53.67	53.41	0.0076	D-4
LINK_1013	314	8	46.37	45.37	53.41	53.54	0.0031	D-4
LINK_1014	391	8	45.87	44.88	53.54	53.27	0.0025	D-4
LINK_1015	276	8	44.88	44.24	53.27	51.99	0.0023	D-4
LINK_1016	329	8	44.24	43.29	51.99	52.70	0.0028	D-4
LINK_1017	325	8	43.29	41.74	52.70	52.43	0.0047	D-4
LINK_1018	619	8	41.74	39.75	52.43	54.12	0.0032	D-4
LINK_1019	281	8	48.37	47.17	52.72	53.22	0.0042	D-4
LINK_1020	354	8	47.17	45.86	53.22	53.19	0.0037	D-4
LINK_1021	668	8	45.86	44.46	53.19	52.74	0.0021	D-4
LINK_1022	387	8	44.46	42.01	52.74	52.68	0.0063	D-4
LINK_1023	266	8	42.01	41.61	52.68	52.42	0.0015	D-4
LINK_1024	499	8	41.61	40.04	52.42	54.89	0.0031	D-4
LINK_1025	363	8	44.42	43.81	50.63	51.03	0.0016	C-4
LINK_1026	455	8	43.81	43.28	51.03	51.26	0.0011	C-4
LINK_1027	338	8	47.02	45.80	52.38	51.91	0.0036	C-4
LINK_1028	321	8	45.80	44.60	51.91	51.61	0.0037	C-4
LINK_1029	288	8	44.60	43.69	51.61	51.54	0.0031	C-4





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE PHYSICAL DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SEWER COLLECTION SYSTEM

10/10/94  
 PAGE 22

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1030	237	8	43.69	43.28	51.54	51.26	0.0017	C-4
LINK_1031	168	8	43.28	42.87	51.26	51.51	0.0024	C-4
LINK_1032	330	8	42.87	42.06	51.51	50.99	0.0024	C-4
LINK_1033	313	8	42.06	40.13	50.99	50.83	0.0061	C-4
LINK_1034	299	8	47.48	45.79	51.81	51.46	0.0056	C-4
LINK_1035	442	8	49.91	48.44	54.82	53.71	0.0033	C-4
LINK_1036	379	8	48.44	47.44	54.36	54.06	0.0026	C-4
LINK_1037	339	8	47.44	46.69	54.06	53.44	0.0022	C-4
LINK_1038	170	8	46.69	46.20	53.44	53.47	0.0028	C-4
LINK_1039	609	8	46.20	45.29	53.47	52.95	0.0014	C-4
LINK_1040	358	8	46.04	45.10	52.95	52.72	0.0026	C-4
LINK_1041	320	8	44.53	43.50	52.72	51.72	0.0032	C-4
LINK_1042	421	8	49.91	48.87	54.18	53.71	0.0024	C-4
LINK_1043	418	8	48.87	47.99	53.71	53.80	0.0021	C-4
LINK_1044	315	8	47.99	47.39	53.80	53.15	0.0019	C-4
LINK_1045	222	8	47.39	46.65	53.15	53.37	0.0033	C-4
LINK_1046	607	8	46.65	45.99	53.37	52.62	0.0010	C-4
LINK_1047	371	8	45.99	45.20	52.62	52.00	0.0021	C-4
LINK_1048	312	8	45.20	44.21	52.00	54.27	0.0031	C-4
LINK_1049	381	8	44.21	43.50	54.27	51.72	0.0018	C-4
LINK_1050	337	12	43.62	42.98	52.05	51.72	0.0019	C-4
LINK_1051	220	6	49.83	49.33	53.13	53.24	0.0022	C-4
LINK_1052	425	6	49.33	48.05	53.24	52.80	0.0030	C-4
LINK_1053	415	6	52.20	50.70	56.25	54.50	0.0036	C-4
LINK_1054	400	6	50.70	48.80	54.50	53.50	0.0047	C-4
LINK_1055	346	6	48.80	48.05	53.50	52.80	0.0021	C-4
LINK_1056	80	6	48.05	47.73	52.80	53.44	0.0040	C-4
LINK_1057	103	6	47.73	47.31	53.44	53.64	0.0040	C-4
LINK_1058	553	6	48.96	48.08	55.80	53.80	0.0015	C-4
LINK_1059	480	6	48.08	47.31	53.80	53.64	0.0016	C-4
LINK_1060	508	8	47.31	46.34	53.64	53.40	0.0019	C-4
LINK_1061	395	8	46.34	45.40	53.40	53.09	0.0023	C-4
LINK_1062	369	8	45.40	44.52	53.09	52.57	0.0023	C-4
LINK_1063	470	8	46.89	45.75	53.04	52.80	0.0024	C-4
LINK_1064	249	8	45.75	45.39	52.80	52.43	0.0014	C-4
LINK_1065	204	8	45.39	45.18	52.43	52.10	0.0010	C-4
LINK_1066	88	8	45.18	45.05	52.10	52.37	0.0014	C-4
LINK_1067	100	8	45.05	44.52	52.37	52.57	0.0053	C-4
LINK_1068	322	10	44.52	43.62	52.57	52.05	0.0028	C-4
LINK_1069	336	8	45.10	44.50	52.73	52.05	0.0017	C-4
LINK_1070	334	8	46.04	45.10	53.13	52.73	0.0028	C-4
LINK_1071	612	8	47.07	46.04	53.57	53.13	0.0016	C-4
LINK_1072	167	8	47.64	47.07	53.41	53.57	0.0034	C-4
LINK_1073	409	8	48.31	47.64	54.06	53.41	0.0016	C-4
LINK_1074	406	8	49.18	48.31	54.56	54.06	0.0021	C-4
LINK_1075	420	8	50.03	49.18	55.50	54.56	0.0020	C-4
LINK_1076	277	8	50.18	49.62	54.76	54.40	0.0020	C-4
LINK_1077	287	8	49.00	48.80	54.25	54.20	0.0007	C-4
LINK_1078	413	8	47.92	46.89	53.92	53.59	0.0024	C-4



## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 23

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1079	179	8	47.90	47.92	53.92	53.92	0.0000	C-4
LINK_1080	250	8	48.60	47.90	54.15	53.92	0.0028	C-4
LINK_1081	185	8	48.80	48.60	54.20	54.15	0.0010	C-4
LINK_1082	307	8	49.62	48.80	54.40	54.20	0.0026	C-4
LINK_1083	224	8	50.25	49.62	55.16	54.40	0.0028	C-4
LINK_1084	334	8	51.03	50.25	56.34	55.16	0.0023	C-4
LINK_1085	278	8	51.77	51.03	56.59	56.34	0.0026	C-4
LINK_1086	199	8	52.22	51.77	56.59	56.49	0.0022	C-4
LINK_1087	201	8	58.45	58.15	64.72	64.83	0.0014	WAKE AVE. - E
LINK_1088	64	8	58.45	58.15	65.00	64.83	0.0046	WAKE AVE. - E
LINK_1089	485	8	58.15	57.28	64.83	65.20	0.0017	4TH STREET TR
LINK_1090	534	8	57.28	56.47	65.20	64.09	0.0015	4TH STREET TR
LINK_1091	224	8	56.47	56.02	64.09	64.00	0.0020	4TH STREET TR
LINK_1092	262	8	56.02	55.68	64.00	64.00	0.0013	4TH STREET TR
LINK_1093	90	8	55.68	54.47	64.00	59.42	0.0134	4TH STREET TR
LINK_1094	125	8	54.47	54.21	59.42	59.11	0.0020	4TH STREET TR
LINK_1095	314	8	55.81	54.94	61.55	60.85	0.0027	D-1
LINK_1096	261	8	54.94	53.94	60.85	60.14	0.0038	D-1
LINK_1097	375	8	56.71	55.70	61.89	61.12	0.0026	D-1
LINK_1098	259	8	55.70	54.74	61.12	60.42	0.0037	D-1
LINK_1099	259	8	54.74	53.94	60.42	60.14	0.0030	D-1
LINK_1100	277	8	53.94	53.09	60.14	60.09	0.0030	D-1
LINK_1101	167	8	58.24	56.34	63.23	61.40	0.0113	D-1
LINK_1102	453	8	56.34	54.21	61.40	59.11	0.0047	D-1
LINK_1103	208	8	57.10	55.33	62.98	61.36	0.0085	D-1
LINK_1104	401	8	55.33	53.92	61.36	59.91	0.0035	D-1
LINK_1105	213	8	54.82	53.92	60.57	59.91	0.0042	D-1
LINK_1106	378	8	55.83	54.82	61.48	60.57	0.0026	D-1
LINK_1107	352	8	56.93	55.83	62.16	61.48	0.0031	D-1
LINK_1108	327	8	57.99	56.93	62.85	62.16	0.0032	D-1
LINK_1109	271	8	57.99	57.11	62.85	62.61	0.0032	D-1
LINK_1110	259	8	58.85	57.99	63.08	62.85	0.0033	D-1
LINK_1111	361	8	58.85	57.69	63.08	62.24	0.0032	D-1
LINK_1112	312	8	57.69	56.63	62.24	61.77	0.0034	D-1
LINK_1113	349	8	56.93	55.42	61.77	60.82	0.0043	D-1
LINK_1114	217	8	55.42	54.21	60.82	59.11	0.0055	D-1
LINK_1115	272	12	54.21	53.83	59.11	59.91	0.0014	4TH STREET TR
LINK_1116	287	12	53.83	53.09	59.91	60.09	0.0025	4TH STREET TR
LINK_1117	296	12	52.48	51.42	61.33	62.77	0.0035	4TH STREET TR
LINK_1118	339	12	53.09	52.48	60.09	61.33	0.0018	4TH STREET TR
LINK_1119	230	8	54.00	53.09	60.50	60.09	0.0039	D-1
LINK_1120	359	8	55.10	54.00	61.34	60.50	0.0030	D-1
LINK_1121	268	8	56.07	55.10	61.87	61.34	0.0036	D-1
LINK_1122	385	8	56.91	56.07	62.61	61.87	0.0021	D-1
LINK_1123	302	8	59.47	58.88	64.21	63.90	0.0019	D-1
LINK_1124	278	8	58.88	58.32	63.90	63.48	0.0020	D-1
LINK_1125	305	8	58.32	57.69	63.48	63.05	0.0020	D-1
LINK_1126	277	8	57.69	57.11	63.05	62.61	0.0020	D-1
LINK_1127	42	8	57.11	56.91	62.61	62.61	0.0047	D-1





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 24

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1128	36	8	57.11	56.91	62.61	62.61	0.0055	D-1
LINK_1129	286	8	57.69	57.11	63.20	62.61	0.0020	D-1
LINK_1130	537	8	58.68	57.69	63.72	63.20	0.0018	D-1
LINK_1131	261	8	59.20	58.68	64.20	63.72	0.0019	D-1
LINK_1132	503	8	59.69	58.81	64.20	64.30	0.0017	C-1
LINK_1133	164	8	58.81	58.45	64.30	64.30	0.0022	C-1
LINK_1134	95	8	58.45	58.04	64.30	67.95	0.0043	C-1
LINK_1135	665	14	42.77	41.88	51.72	52.96	0.0013	C-4
LINK_1136	438	14	41.88	40.99	52.96	52.44	0.0020	C-4
LINK_1137	545	14	40.99	40.31	52.44	52.64	0.0012	C-4
LINK_1138	335	14	40.31	39.59	52.64	51.46	0.0021	C-4
LINK_1139	162	14	39.59	39.10	51.46	50.83	0.0030	C-4
LINK_1140	302	14	39.10	39.05	50.83	51.51	0.0001	C-4
LINK_1141	248	14	38.87	38.37	51.51	51.27	0.0020	C-4
LINK_1142	40	8	42.19	41.88	50.86	50.90	0.0077	3RD ST. NOR
LINK_1143	33	8	46.24	46.12	58.00	58.00	0.0036	ROSS AVE EAST
LINK_1144	424	8	44.40	43.73	50.38	51.48	0.0015	F-2
LINK_1145	219	8	43.73	42.98	51.48	51.53	0.0034	F-2
LINK_1146	334	8	42.98	42.38	51.53	50.58	0.0018	F-2
LINK_1147	144	8	42.38	42.19	50.58	50.86	0.0013	F-2
LINK_1148	329	8	52.55	51.89	57.40	57.80	0.0020	E-1
LINK_1149	340	8	51.89	51.23	57.80	58.20	0.0019	E-1
LINK_1150	170	8	52.49	51.54	56.60	56.90	0.0055	E-1
LINK_1151	377	12	51.54	51.14	56.90	57.50	0.0010	E-1
LINK_1152	362	12	51.14	50.74	57.50	57.96	0.0011	E-1
LINK_1153	323	8	52.54	50.74	59.61	57.96	0.0055	E-1
LINK_1154	378	8	54.24	52.54	61.15	59.61	0.0045	E-1
LINK_1155	408	8	52.51	51.87	57.47	57.00	0.0015	E-1
LINK_1156	417	8	51.50	50.22	57.00	57.00	0.0030	E-1
LINK_1157	178	12	46.60	46.24	58.50	58.00	0.0020	E-1
LINK_1158	606	12	47.80	46.60	56.30	58.50	0.0019	E-1
LINK_1159	256	12	48.80	47.80	56.60	56.00	0.0039	E-1
LINK_1160	242	12	49.32	48.80	57.00	56.60	0.0021	E-1
LINK_1161	270	12	49.85	49.32	58.00	57.00	0.0019	E-1
LINK_1162	279	12	50.41	49.85	57.96	58.00	0.0020	E-1
LINK_1163	240	8	51.23	50.41	58.20	57.96	0.0034	E-1
LINK_1164	354	8	52.26	51.50	56.94	57.50	0.0021	E-1
LINK_1165	474	8	51.50	50.88	57.50	58.00	0.0013	E-1
LINK_1166	351	12	44.47	43.90	55.10	55.00	0.0016	G-1
LINK_1167	417	12	43.90	43.23	55.00	54.00	0.0016	G-1
LINK_1168	467	12	43.23	42.49	54.00	53.45	0.0015	G-1
LINK_1169	344	12	49.27	48.54	58.20	56.60	0.0021	G-1
LINK_1170	365	12	48.54	47.98	56.60	56.30	0.0015	G-1
LINK_1171	232	8	51.46	50.99	58.02	57.58	0.0020	G-1
LINK_1172	393	8	50.99	50.25	57.58	56.47	0.0018	G-1
LINK_1173	305	8	49.65	49.01	55.70	55.17	0.0021	G-1
LINK_1174	302	8	50.25	49.65	56.47	55.70	0.0019	G-1
LINK_1175	330	8	56.01	54.20	65.55	65.28	0.0054	B-1
LINK_1176	330	8	49.75	49.03	55.50	56.27	0.0021	G-1





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 25

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1177	386	8	49.03	48.31	56.27	56.30	0.0018	G-1
LINK_1178	646	12	47.98	46.57	56.30	56.82	0.0021	G-1
LINK_1179	183	12	41.55	41.10	54.21	53.90	0.0024	EASTSIDE TRUN
LINK_1180	245	12	42.49	41.55	53.45	54.21	0.0038	EASTSIDE TRUN
LINK_1181	433	12	43.87	42.49	54.00	53.45	0.0031	EASTSIDE TRUN
LINK_1182	894	12	46.57	43.87	46.82	54.00	0.0030	EASTSIDE TRUN
LINK_1183	323	12	47.38	46.70	56.40	56.80	0.0021	EASTSIDE TRUN
LINK_1184	257	12	48.11	47.48	56.40	56.40	0.0024	EASTSIDE TRUN
LINK_1185	318	12	48.94	48.21	56.60	56.40	0.0023	EASTSIDE TRUN
LINK_1186	311	12	49.64	49.04	56.60	56.60	0.0019	EASTSIDE TRUN
LINK_1187	314	12	50.38	49.74	56.80	56.60	0.0020	EASTSIDE TRUN
LINK_1188	267	12	52.14	50.48	57.30	56.80	0.0062	EASTSIDE TRUN
LINK_1189	354	8	56.50	52.50	64.00	63.90	0.0113	IMPERIAL AVE
LINK_1190	262	8	58.14	57.43	63.42	63.72	0.0027	EE-1
LINK_1191	323	8	57.43	56.74	63.72	64.09	0.0021	EE-1
LINK_1192	383	12	56.74	55.86	64.09	64.45	0.0023	EE-1
LINK_1193	382	12	55.86	54.94	64.45	64.82	0.0024	EE-1
LINK_1194	346	12	54.94	53.99	64.82	65.16	0.0027	EE-1
LINK_1195	86	8	53.99	53.60	65.16	65.16	0.0045	EE-1
LINK_1196	380	12	48.67	48.40	59.34	60.19	0.0007	HOLT AVE. CRO
LINK_1197	316	12	49.10	48.67	58.90	59.34	0.0013	HOLT AVE. CRO
LINK_1198	341	12	49.56	49.10	58.45	58.90	0.0013	HOLT AVE. CRO
LINK_1199	336	12	49.98	49.56	57.73	58.45	0.0012	HOLT AVE. CRO
LINK_1200	347	12	50.29	49.98	57.34	57.73	0.0008	HOLT AVE. CRO
LINK_1201	345	12	50.76	50.29	57.33	57.34	0.0013	HOLT AVE. CRO
LINK_1202	379	12	51.21	50.76	57.03	57.33	0.0011	HOLT AVE. CRO
LINK_1203	389	6	67.35	66.56	70.00	70.00	0.0020	8TH ST. TRUNK
LINK_1204	555	6	66.57	65.46	70.00	69.00	0.0020	8TH ST. TRUNK
LINK_1205	637	6	65.46	64.18	69.00	68.00	0.0020	8TH ST. TRUNK
LINK_1206	589	6	64.18	63.01	68.00	68.00	0.0019	8TH ST. TRUNK
LINK_1207	523	6	63.01	61.96	68.00	68.00	0.0020	8TH ST. TRUNK
LINK_1208	149	8	61.99	61.66	68.00	68.00	0.0022	8TH ST. TRUNK
LINK_1209	333	8	61.66	60.99	68.00	68.00	0.0020	8TH ST. TRUNK
LINK_1210	411	8	60.99	60.17	68.00	68.00	0.0020	8TH ST. TRUNK
LINK_1211	311	8	60.17	59.55	68.00	68.00	0.0019	8TH ST. TRUNK
LINK_1212	338	8	59.55	58.87	68.00	68.00	0.0020	8TH ST. TRUNK
LINK_1213	415	8	58.87	58.04	68.00	68.00	0.0020	8TH ST. TRUNK
LINK_1214	171	6	58.04	57.70	67.95	63.50	0.0019	8TH ST. TRUNK
LINK_1215	520	6	57.70	57.43	63.50	62.30	0.0005	8TH ST. TRUNK
LINK_1216	523	6	57.43	56.55	62.30	62.87	0.0016	8TH ST. TRUNK
LINK_1217	447	6	56.55	55.59	62.87	61.39	0.0021	8TH ST. TRUNK
LINK_1218	222	6	55.59	55.48	61.39	61.23	0.0005	8TH ST. TRUNK
LINK_1219	599	8	55.48	54.58	61.23	60.03	0.0015	8TH ST. TRUNK
LINK_1220	387	8	54.58	54.04	60.03	59.56	0.0014	8TH ST. TRUNK
LINK_1221	316	8	54.04	53.64	59.56	58.96	0.0012	8TH ST. TRUNK
LINK_1222	225	8	53.64	52.63	58.96	59.01	0.0044	8TH ST. TRUNK
LINK_1223	422	8	45.95	45.24	49.72	50.02	0.0016	COMMERCIAL AV
LINK_1224	449	8	45.24	44.84	50.02	50.73	0.0008	COMMERCIAL AV
LINK_1225	202	8	44.84	44.29	50.73	50.80	0.0027	COMMERCIAL AV



## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

10/10/94

## SEWER PIPELINE PHYSICAL DATA REPORT

PAGE 26

FILE RUN: SY\_URUN1

## ULTIMATE SEWER COLLECTION SYSTEM

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1226	361	8	44.29	43.48	50.80	50.57	0.0022	COMMERCIAL AV
LINK_1227	377	8	43.20	43.06	51.57	51.23	0.0003	COMMERCIAL AV
LINK_1228	492	8	43.06	42.19	51.23	50.86	0.0017	COMMERCIAL AV
LINK_1229	230	10	42.19	41.70	50.86	51.61	0.0021	COMMERCIAL AV
LINK_1230	434	10	41.70	41.32	51.61	54.14	0.0008	COMMERCIAL AV
LINK_1231	471	10	41.32	40.65	54.14	53.29	0.0014	COMMERCIAL AV
LINK_1232	56	15	41.71	41.70	53.49	53.73	0.0001	4TH STREET TR
LINK_1233	156	15	41.86	41.71	53.84	53.49	0.0009	4TH STREET TR
LINK_1234	198	15	42.09	41.86	53.47	53.84	0.0011	4TH STREET TR
LINK_1235	154	15	42.27	42.09	53.71	53.47	0.0011	4TH STREET TR
LINK_1236	199	15	42.71	42.27	53.83	53.71	0.0022	4TH STREET TR
LINK_1237	188	15	42.93	42.71	53.93	53.83	0.0011	4TH STREET TR
LINK_1238	167	15	43.10	42.93	53.93	54.04	0.0010	4TH STREET TR
LINK_1239	206	15	43.43	43.10	54.18	54.04	0.0016	4TH STREET TR
LINK_1240	195	15	43.66	43.43	54.45	54.18	0.0011	4TH STREET TR
LINK_1241	365	15	44.09	43.66	54.64	54.45	0.0011	4TH STREET TR
LINK_1242	354	15	44.49	44.09	55.25	54.64	0.0011	4TH STREET TR
LINK_1243	358	15	45.04	44.49	56.06	55.25	0.0015	4TH STREET TR
LINK_1244	361	15	45.46	45.04	56.70	56.16	0.0011	4TH STREET TR
LINK_1245	222	15	45.98	45.46	57.10	56.70	0.0023	4TH STREET TR
LINK_1246	144	15	46.41	45.99	57.21	57.10	0.0029	4TH STREET TR
LINK_1247	242	15	46.41	46.27	57.72	57.21	0.0005	4TH STREET TR
LINK_1248	107	15	46.55	46.41	57.94	57.72	0.0013	4TH STREET TR
LINK_1249	289	15	46.93	46.55	58.57	57.94	0.0013	4TH STREET TR
LINK_1250	104	15	47.15	46.93	58.75	58.57	0.0021	4TH ST. EAST
LINK_1251	4831	24	43.67	48.00	51.50	49.00	0.0000	MAIN FM
LINK_1252	0	**	0.00	20.00	51.50	51.50	0.0000	
LINK_1253	135	8	54.05	53.79	58.60	58.30	0.0019	E-1
LINK_1254	410	8	53.79	52.98	58.30	57.60	0.0019	E-1
LINK_1255	300	8	54.47	53.88	59.10	58.70	0.0019	E-1
LINK_1256	305	8	53.88	53.28	58.70	58.30	0.0019	E-1
LINK_1257	255	8	55.07	54.66	59.60	60.10	0.0016	E-1
LINK_1258	120	8	54.74	54.58	59.40	59.60	0.0013	E-1
LINK_1259	315	8	54.58	54.13	59.60	59.10	0.0014	E-1
LINK_1260	269	8	54.13	53.67	59.10	58.70	0.0017	E-1
LINK_1261	224	12	41.10	40.93	53.90	53.80	0.0007	EASTSIDE TRUN
LINK_1262	49	12	49.01	44.47	55.17	55.10	0.0926	G-1
LINK_1263	138	27	30.10	29.81	51.50	51.50	0.0021	MAIN ST. TRUN
LINK_1264	45	8	47.01	47.15	58.42	58.75	-.0030	4TH AVE. CROS
LINK_1265	45	8	51.81	47.28	58.97	58.57	0.1006	4TH AVE. CROS
LINK_1266	0	0	0.00	42.19	50.86	50.86	0.0000	
LINK_1267	43	8	42.99	42.60	53.85	53.47	0.0090	4TH AVE. CROS
LINK_1268	43	8	44.06	42.71	54.06	53.83	0.0314	4TH AVE. CROS
LINK_1269	44	8	44.12	43.27	54.02	53.93	0.0193	4TH AVE. CROS
LINK_1270	43	8	44.82	43.44	54.28	54.04	0.0320	4TH AVE. CROS
LINK_1271	43	8	48.28	43.43	54.52	54.18	0.1127	4TH AVE. CROS
LINK_1272	59	8	46.22	44.41	54.52	54.45	0.0306	4TH AVE. CROS
LINK_1273	62	8	46.52	44.65	54.82	54.64	0.0301	4TH AVE. CROS
LINK_1274	62	8	47.04	45.17	55.51	55.25	0.0301	4TH AVE. CROS





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 27

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1275	55	8	47.68	45.44	56.46	56.16	0.0407	4TH AVE. CROS
LINK_1276	46	8	48.79	45.74	56.80	56.70	0.0663	4TH AVE. CROS
LINK_1277	45	8	49.95	46.54	57.27	57.10	0.0757	4TH AVE. CROS
LINK_1278	45	8	50.88	47.01	58.04	57.72	0.0860	4TH AVE. CROS
LINK_1279	0	0	0.00	42.38	53.85	53.85	0.0000	
LINK_1280	0	0	0.00	43.42	54.06	54.06	0.0000	
LINK_1281	0	0	0.00	43.94	54.02	54.02	0.0000	
LINK_1282	0	0	0.00	44.47	54.28	54.28	0.0000	
LINK_1283	0	0	0.00	44.89	54.52	54.52	0.0000	
LINK_1284	0	0	0.00	45.10	54.52	54.52	0.0000	
LINK_1285	0	0	0.00	45.84	54.82	54.82	0.0000	
LINK_1286	0	0	0.00	46.51	55.51	55.51	0.0000	
LINK_1287	0	0	0.00	47.49	56.46	56.46	0.0000	
LINK_1288	0	0	0.00	48.79	56.80	56.80	0.0000	
LINK_1289	0	0	0.00	49.95	57.27	57.27	0.0000	
LINK_1290	0	0	0.00	50.68	58.04	58.04	0.0000	
LINK_1291	0	0	0.00	51.81	58.97	58.97	0.0000	
LINK_1292	0	0	0.00	51.21	57.03	57.03	0.0000	
LINK_1293	0	**	0.00	45.00	65.16	65.16	0.0000	
LINK_1294	430	4	52.00	58.15	65.15	64.83	-.0140	4TH STREET TR
LINK_1295	0	**	0.00	48.27	68.00	68.00	0.0000	
LINK_1296	2886	8	62.00	61.00	68.00	69.00	0.0003	
LINK_1297	0	**	0.00	39.50	58.00	58.00	0.0000	
LINK_1298	259	4	48.00	52.14	58.00	57.30	-.0150	EASTSIDE TRU
LINK_1299	190	8	54.99	54.66	60.40	60.10	0.0017	E-1
LINK_1300	305	8	54.66	54.20	60.10	59.80	0.0015	E-1
LINK_1301	280	8	54.20	53.75	59.80	59.50	0.0016	E-1
LINK_1302	150	12	53.75	53.54	59.50	58.90	0.0014	E-1
LINK_1303	140	12	53.54	53.33	58.90	58.70	0.0015	E-1
LINK_1304	260	12	53.33	52.91	58.70	58.30	0.0016	E-1
LINK_1305	280	12	52.91	52.48	58.30	57.60	0.0015	E-1
LINK_1306	325	12	52.40	51.86	57.60	57.20	0.0016	E-1
LINK_1307	265	12	51.86	51.54	57.20	56.90	0.0012	E-1
LINK_1308	420	8	56.37	54.94	63.30	64.82	0.0034	EE-1
LINK_1309	315	8	61.14	60.66	63.40	63.50	0.0015	EE-1
LINK_1310	355	8	60.46	59.31	63.50	64.24	0.0032	EE-1
LINK_1311	400	8	59.31	58.50	64.24	64.35	0.0020	EE-1
LINK_1312	423	8	59.00	58.40	64.38	64.80	0.0014	EE-1
LINK_1313	340	8	58.40	57.43	64.83	63.72	0.0028	EE-1
LINK_1314	538	6	73.78	72.97	75.00	74.00	0.0015	8TH ST. TRUNK
LINK_1315	797	6	72.97	71.78	74.00	73.00	0.0014	8TH ST. TRUNK
LINK_1316	1039	6	71.78	70.22	74.00	73.00	0.0015	8TH ST. TRUNK
LINK_1317	1050	6	70.22	68.64	73.00	71.00	0.0015	8TH ST. TRUNK
LINK_1318	649	6	68.64	67.35	71.00	70.00	0.0019	8TH ST. TRUNK
LINK_1319	356	8	57.31	56.81	61.90	62.20	0.0014	A-1
LINK_1320	328	8	56.81	56.30	62.20	62.60	0.0015	A-1
LINK_1321	350	8	58.60	56.69	62.00	62.60	0.0054	A-1
LINK_1322	332	8	56.69	56.17	62.50	62.90	0.0015	A-1
LINK_1323	237	8	56.93	56.51	63.50	62.40	0.0017	A-1



## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

10/10/94

## SEWER PIPELINE PHYSICAL DATA REPORT

PAGE 28

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1324	343	8	56.51	55.93	62.40	62.80	0.0016	A-1
LINK_1325	340	8	55.93	55.36	62.80	63.50	0.0016	A-1
LINK_1326	234	8	56.87	56.33	63.30	62.80	0.0023	A-1
LINK_1327	350	8	56.33	55.62	62.80	63.10	0.0020	A-1
LINK_1328	336	8	55.62	54.90	63.10	63.60	0.0021	A-1
LINK_1329	303	12	56.30	55.84	62.60	62.90	0.0015	A-1
LINK_1330	296	12	55.84	55.36	62.90	63.50	0.0016	A-1
LINK_1331	296	12	55.36	54.90	63.50	63.60	0.0015	A-1
LINK_1332	280	12	54.90	54.41	63.60	62.80	0.0017	A-1
LINK_1333	325	12	56.60	55.84	65.40	63.70	0.0023	A-1
LINK_1334	375	12	55.85	55.13	63.70	63.00	0.0019	A-1
LINK_1335	349	12	55.13	54.41	63.00	62.80	0.0020	A-1
LINK_1336	284	12	54.41	53.68	62.80	62.70	0.0025	A-1
LINK_1337	339	12	53.68	53.09	62.70	63.10	0.0017	A-1
LINK_1338	311	12	53.09	52.49	63.10	63.40	0.0019	A-1
LINK_1339	229	12	52.49	51.09	63.40	64.20	0.0061	A-1
LINK_1340	300	8	55.00	54.31	61.05	61.81	0.0023	A-1
LINK_1341	410	8	54.31	53.62	61.81	62.51	0.0016	A-1
LINK_1342	300	8	54.40	53.74	60.50	61.26	0.0022	A-1
LINK_1343	410	8	53.74	53.08	61.26	62.06	0.0016	A-1
LINK_1344	300	8	54.00	53.34	60.00	60.74	0.0022	A-1
LINK_1345	410	8	53.34	52.68	60.76	61.45	0.0016	A-1
LINK_1346	282	12	54.03	53.46	62.50	62.70	0.0020	A-1
LINK_1347	495	12	53.46	52.60	62.70	62.80	0.0017	A-1
LINK_1348	194	12	52.60	52.30	62.80	62.65	0.0015	A-1
LINK_1349	162	12	52.30	52.00	62.65	62.51	0.0018	A-1
LINK_1350	169	12	52.00	51.80	62.51	62.50	0.0011	A-1
LINK_1351	103	12	51.80	50.97	62.50	62.06	0.0080	A-1
LINK_1352	345	12	50.97	50.49	62.06	61.45	0.0013	A-1
LINK_1353	410	12	50.44	49.56	61.45	61.00	0.0021	A-1
LINK_1354	600	8	60.40	59.44	65.10	65.80	0.0016	A-1
LINK_1355	268	8	59.44	59.01	65.80	66.02	0.0016	A-1
LINK_1356	302	8	59.98	59.49	66.40	65.70	0.0016	A-1
LINK_1357	301	8	59.89	59.01	65.70	66.02	0.0029	A-1
LINK_1358	325	8	59.01	58.39	66.02	66.00	0.0019	A-1
LINK_1359	282	8	60.70	60.26	65.60	65.50	0.0015	A-1
LINK_1360	332	8	60.26	59.72	65.50	65.80	0.0016	A-1
LINK_1361	332	8	59.72	59.19	65.80	66.10	0.0016	A-1
LINK_1362	330	8	59.19	58.59	66.10	66.10	0.0018	A-1
LINK_1363	280	8	61.40	60.95	65.80	65.70	0.0016	A-1
LINK_1364	391	8	60.95	60.42	65.70	66.00	0.0013	A-1
LINK_1365	272	8	60.42	59.89	66.00	66.30	0.0019	A-1
LINK_1366	335	8	59.89	59.29	66.30	66.46	0.0017	A-1
LINK_1367	455	8	60.58	59.85	68.70	66.90	0.0016	A-1
LINK_1368	506	8	59.85	59.00	66.90	67.30	0.0016	A-1
LINK_1369	320	8	59.00	58.50	67.90	66.95	0.0015	A-1
LINK_1370	265	8	63.50	59.58	68.50	66.70	0.0147	A-1
LINK_1371	200	8	59.58	59.16	66.70	68.30	0.0021	A-1
LINK_1372	105	8	61.37	61.14	67.86	67.56	0.0021	A-1





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 29

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1373	160	8	61.14	60.80	67.56	66.94	0.0021	A-1
LINK_1374	215	8	60.80	60.31	66.94	67.21	0.0022	A-1
LINK_1375	330	8	60.31	59.74	67.21	67.75	0.0017	A-1
LINK_1376	285	8	59.74	59.16	67.75	68.30	0.0020	A-1
LINK_1377	190	8	59.16	58.71	68.30	68.72	0.0023	A-1
LINK_1378	215	8	58.71	58.31	68.72	69.06	0.0018	A-1
LINK_1379	265	24	58.73	58.07	69.00	69.06	0.0024	LA BRUCHERIE
LINK_1380	289	8	55.74	54.97	61.70	60.93	0.0026	B-3
LINK_1381	318	8	60.29	59.69	67.80	67.20	0.0018	BB-1
LINK_1382	288	8	59.69	59.08	67.20	66.60	0.0021	BB-1
LINK_1383	308	8	59.08	58.44	66.60	66.90	0.0020	BB-1
LINK_1384	289	8	58.44	58.25	69.50	66.90	0.0006	BB-1
LINK_1385	293	21	57.63	57.05	69.50	69.50	0.0019	PRISON TRUNK
LINK_1386	192	8	62.37	61.98	70.40	69.00	0.0020	BB-1
LINK_1387	303	8	61.98	61.60	69.00	68.80	0.0012	BB-1
LINK_1388	305	8	62.10	61.60	67.50	68.80	0.0016	BB-1
LINK_1389	179	8	62.35	62.10	67.80	67.50	0.0014	BB-1
LINK_1390	340	8	62.68	62.10	67.90	67.50	0.0017	BB-1
LINK_1391	298	8	62.60	62.10	67.50	67.50	0.0016	BB-1
LINK_1392	176	8	62.85	62.60	67.80	67.50	0.0014	BB-1
LINK_1393	338	8	63.20	62.60	68.00	67.50	0.0017	BB-1
LINK_1394	305	8	63.10	62.60	68.10	67.50	0.0016	BB-1
LINK_1395	176	8	63.35	63.10	68.20	63.35	0.0014	BB-1
LINK_1396	336	8	63.70	63.10	68.30	68.00	0.0017	BB-1
LINK_1397	462	8	52.55	51.70	59.00	58.40	0.0018	E-1
LINK_1398	268	8	53.08	52.55	59.20	59.00	0.0019	E-1
LINK_1399	462	8	53.08	52.23	59.20	58.60	0.0018	E-1
LINK_1400	181	8	53.92	53.61	59.70	59.50	0.0017	E-1
LINK_1401	452	8	53.61	52.76	59.50	58.80	0.0018	E-1
LINK_1402	102	8	53.01	52.76	60.60	58.80	0.0024	E-1
LINK_1403	268	8	52.76	52.23	58.80	58.60	0.0019	E-1
LINK_1404	268	8	52.23	51.70	58.60	58.40	0.0019	E-1
LINK_1405	284	8	51.70	51.23	58.40	58.20	0.0016	E-1
LINK_1406	156	8	52.40	51.90	57.60	57.27	0.0032	E-1
LINK_1407	167	8	52.94	52.40	58.10	57.60	0.0032	E-1
LINK_1408	218	8	53.51	52.94	58.50	58.10	0.0026	E-1
LINK_1409	295	8	53.51	52.92	58.50	58.50	0.0020	E-1
LINK_1410	539	8	52.92	51.32	58.50	57.00	0.0029	E-1
LINK_1411	126	8	61.37	61.05	67.86	67.73	0.0025	A-1
LINK_1412	367	8	61.05	60.24	67.73	67.32	0.0022	A-1
LINK_1413	242	8	60.24	59.97	67.32	67.40	0.0011	A-1
LINK_1414	188	8	59.97	59.43	67.40	67.78	0.0028	A-1
LINK_1415	133	8	61.13	60.80	66.64	66.94	0.0024	A-1
LINK_1416	270	8	61.69	61.13	67.11	66.64	0.0020	A-1
LINK_1417	287	8	62.24	61.69	67.57	67.11	0.0019	A-1
LINK_1418	178	8	62.24	61.85	67.57	67.48	0.0021	A-1
LINK_1419	179	8	61.85	61.45	67.48	67.35	0.0022	A-1
LINK_1420	225	8	61.45	61.06	67.35	66.60	0.0017	A-1
LINK_1421	355	8	61.06	60.25	66.60	66.09	0.0022	A-1



## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 30

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
LINK_1422	328	8	60.25	59.68	66.09	66.70	0.0017	A-1
LINK_1423	1070	18	70.56	68.42	74.00	74.00	0.0020	PRISON TRUNK
LINK_1424	1180	18	68.42	66.06	74.00	74.00	0.0020	PRISON TRUNK
LINK_1425	796	18	66.06	64.47	74.00	72.00	0.0020	PRISON TRUNK
LINK_1426	946	18	64.47	62.58	72.00	72.00	0.0020	PRISON TRUNK
LINK_1427	0	0	0.00	54.45	63.70	63.70	0.0000	B-2
LINK_1428	307	12	66.37	65.75	74.00	74.00	0.0020	PRISON TRUNK
P_LINK_1429	0	**	0.00	61.73	74.00	74.00	0.0000	250 CU FT OR
LINK_1430	650	8	53.64	52.35	64.50	65.00	0.0019	WAKE AVE. - W
LINK_1431	442	8	52.35	59.21	65.00	65.50	-.0150	WAKE AVE. - W
LINK_1432	892	8	59.21	57.43	65.50	67.00	0.0020	WAKE AVE. - W
LINK_1433	190	8	57.43	57.05	67.00	69.50	0.0020	WAKE AVE. - W
LINK_1434	684	8	58.65	57.28	65.50	65.20	0.0020	WAKE AVE. - E
LINK_1435	125	6	71.00	70.36	78.00	78.00	0.0051	PRISON TRUNK
LINK_1436	429	10	44.20	43.35	52.50	53.00	0.0019	HEIL AVE. TRU
LINK_1437	403	10	43.35	42.54	53.00	53.50	0.0020	HEIL AVE. TRU
LINK_1438	292	10	42.54	41.95	53.50	54.50	0.0020	HEIL AVE. TRU
LINK_1439	141	10	41.95	41.67	54.50	54.50	0.0019	HEIL AVE. TRU
LINK_1440	0	**	0.00	35.00	55.00	55.00	0.0000	
LINK_1441	153	6	48.50	48.85	55.00	54.50	-.0020	
D_LINK_1442	7595	21	46.00	46.50	51.00	51.50	0.0000	
D_LINK_1443	****	21	60.00	65.00	65.00	70.00	0.0000	SOUTHSIDE FM
D_LINK_1444	1826	0	27.92	24.27	52.00	49.00	0.0020	ZONE 1
P_LINK_1445	0	**	0.00	32.00	52.00	52.00	0.0000	
P_LINK_1446	0	**	0.00	21.00	51.00	51.00	0.0000	
P_LINK_1447	0	**	0.00	30.00	65.00	65.00	0.0000	
D_LINK_1448	2400	0	44.42	39.62	49.00	46.00	0.0020	ZONE 10
D_LINK_1449	2400	0	44.42	39.62	49.00	46.00	0.0020	ZONE 10
D_LINK_1450	1340	0	39.62	36.94	46.00	46.00	0.0020	ZONE 10
D_LINK_1451	1340	0	36.94	34.26	46.00	46.00	0.0020	ZONE 10
D_LINK_1452	1566	0	42.28	38.79	46.50	46.00	0.0022	ZONE 10
D_LINK_1453	2683	0	38.42	33.05	43.00	46.00	0.0020	ZONE 10
D_LINK_1454	2614	0	33.05	27.82	46.00	49.00	0.0020	ZONE 10
D_LINK_1455	2523	0	40.42	35.37	45.00	48.00	0.0020	ZONE 12
D_LINK_1456	2480	0	38.60	33.64	43.00	46.00	0.0020	ZONE 12
D_LINK_1457	645	0	45.92	44.63	50.50	50.00	0.0020	ZONE 11
D_LINK_1458	1835	0	46.78	42.69	51.00	48.00	0.0022	ZONE
D_LINK_1459	1643	0	46.42	42.06	51.00	47.00	0.0026	ZONE 11
D_LINK_1460	1240	0	41.78	39.01	46.00	48.00	0.0022	ZONE 12
D_LINK_1461	1019	0	21.05	19.01	48.50	49.00	0.0020	ZONE 11
D_LINK_1462	988	0	23.03	21.05	48.00	48.50	0.0020	ZONE 11
D_LINK_1463	1306	0	25.64	23.03	48.00	48.00	0.0020	ZONE 11
D_LINK_1464	1268	0	42.60	40.06	47.00	48.00	0.0020	ZONE 12
D_LINK_1465	1345	0	28.33	25.64	50.00	48.00	0.0020	ZONE 11
D_LINK_1466	1367	0	31.06	28.33	48.00	50.00	0.0020	ZONE 11
D_LINK_1467	1288	0	33.64	31.06	46.00	48.00	0.0020	ZONE 11
D_LINK_1468	825	0	40.29	38.64	46.50	47.00	0.0020	ZONE 11
D_LINK_1469	1900	0	52.42	48.62	57.00	55.00	0.0020	ZONE 7
D_LINK_1470	2401	0	55.60	50.80	60.00	61.00	0.0020	ZONE 9





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

## SEWER PIPELINE PHYSICAL DATA REPORT

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

10/10/94

PAGE 31

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
D_LINK_1471	1415	0	50.80	47.97	61.00	60.00	0.0020	ZONE 9
D_LINK_1472	2401	0	54.60	49.80	59.00	61.00	0.0020	ZONE 9
D_LINK_1473	1328	0	47.97	45.31	60.00	57.50	0.0020	ZONE 9
D_LINK_1474	2401	0	53.60	48.80	58.00	57.50	0.0020	ZONE 9
D_LINK_1475	1321	0	45.31	42.67	57.50	56.00	0.0020	ZONE 9
D_LINK_1476	518	0	38.62	37.59	51.00	51.00	0.0020	ZONE 7
D_LINK_1477	2718	0	44.06	38.62	52.50	51.00	0.0020	ZONE 7
D_LINK_1478	2270	0	48.60	44.06	53.00	52.50	0.0020	ZONE 7
D_LINK_1479	3015	0	51.00	52.00	54.00	55.00	0.0000	EASTSIDE FM-2
D_LINK_1480	1291	0	47.78	44.90	52.00	52.50	0.0022	ZONE 9
D_LINK_1481	2400	0	48.60	43.80	53.00	52.50	0.0020	ZONE 9
D_LINK_1482	1768	0	43.80	40.26	52.50	54.00	0.0020	ZONE 9
D_LINK_1483	2400	0	50.60	45.80	55.00	54.00	0.0020	ZONE 9
D_LINK_1484	1519	0	36.54	33.50	56.00	54.00	0.0020	ZONE 9
D_LINK_1485	2520	0	41.58	36.54	57.00	56.00	0.0020	ZONE 9
D_LINK_1486	1325	0	44.23	41.58	58.00	57.00	0.0020	ZONE 8
D_LINK_1487	1891	0	53.60	49.82	58.00	59.00	0.0020	ZONE 8
D_LINK_1488	935	0	54.28	52.19	58.50	58.00	0.0022	ZONE 8
D_LINK_1489	1330	0	46.89	44.23	59.00	58.00	0.0020	ZONE 8
D_LINK_1490	1410	0	49.71	46.89	60.00	59.00	0.0020	ZONE 8
D_LINK_1491	2444	0	54.60	49.71	59.00	60.00	0.0020	ZONE 8
D_LINK_1492	4873	0	49.60	39.86	55.00	51.00	0.0020	ZONE 7
D_LINK_1493	2400	0	45.42	40.62	50.00	50.50	0.0020	ZONE 6
D_LINK_1494	1237	0	40.62	38.14	50.50	51.00	0.0020	ZONE 6
D_LINK_1495	2400	0	46.42	41.62	51.00	51.00	0.0020	ZONE 6
D_LINK_1496	1484	0	36.35	33.38	53.00	51.00	0.0020	ZONE 6
D_LINK_1497	2572	0	48.62	43.47	55.00	53.00	0.0020	ZONE 7
D_LINK_1498	2401	0	48.42	43.62	53.00	53.00	0.0020	ZONE 6
D_LINK_1499	1325	0	39.00	36.35	55.00	53.00	0.0020	ZONE 6
D_LINK_1500	3857	0	52.60	44.88	57.00	55.00	0.0020	ZONE 7
D_LINK_1501	2397	0	50.42	45.62	55.00	55.00	0.0020	ZONE 6
D_LINK_1502	1338	0	41.68	39.00	57.00	55.00	0.0020	ZONE 6
D_LINK_1503	2644	0	53.60	48.31	58.00	57.00	0.0020	ZONE 7
D_LINK_1504	2431	0	54.60	49.74	59.00	58.50	0.0020	ZONE 7
D_LINK_1505	2397	0	51.15	46.35	56.00	57.00	0.0020	ZONE 6
D_LINK_1506	1389	0	44.45	41.68	58.50	57.00	0.0020	ZONE 6
D_LINK_1507	2398	0	53.42	48.62	58.00	58.50	0.0020	ZONE 6
D_LINK_1508	2479	0	49.41	44.45	63.00	60.00	0.0020	ZONE 4
D_LINK_1509	2633	0	54.68	49.41	63.00	63.00	0.0020	ZONE 4
D_LINK_1510	1818	0	58.42	54.78	63.00	63.00	0.0020	ZONE 4
D_LINK_1511	1461	0	57.60	54.68	65.00	63.00	0.0020	ZONE 4
D_LINK_1512	1425	0	60.78	57.60	65.00	65.00	0.0022	ZONE 4
D_LINK_1513	1289	0	62.78	59.90	67.00	65.00	0.0022	ZONE 4
D_LINK_1514	2689	0	70.78	62.78	75.00	67.00	0.0029	ZONE 4
O_LINK_1515	50	12	40.00	48.00	45.00	45.00	-.1600	
D_LINK_1516	1077	0	56.15	53.99	61.00	59.00	0.0020	ZONE 5
D_LINK_1517	1378	0	53.99	51.15	59.00	56.00	0.0020	ZONE 5
D_LINK_1518	1967	0	70.60	66.66	75.00	74.00	0.0020	ZONE 3
D_LINK_1519	1551	0	66.78	63.32	71.00	72.00	0.0022	ZONE 3





## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

10/10/94

## SEWER PIPELINE PHYSICAL DATA REPORT

PAGE 32

FILE RUN: SY\_URUN1

## ULTIMATE SEWER COLLECTION SYSTEM

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
D_LINK_1520	1190	0	62.60	60.22	67.00	68.00	0.0020	ZONE 3
D_LINK_1521	2400	0	70.60	65.80	75.00	74.00	0.0020	ZONE 3
D_LINK_1522	1345	0	65.80	63.11	74.00	72.00	0.0020	ZONE 3
D_LINK_1523	2400	0	67.60	62.80	72.00	72.00	0.0020	ZONE 3
D_LINK_1524	1345	0	62.80	60.11	72.00	68.00	0.0020	ZONE 3
P_LINK_1525	0	**	0.00	31.68	46.00	46.00	0.0000	
D_LINK_1526	2400	0	64.60	59.80	69.00	68.00	0.0020	ZONE 3
D_LINK_1527	1294	0	59.80	57.21	68.00	65.00	0.0020	ZONE 3
D_LINK_1528	2411	0	62.15	57.32	67.00	66.00	0.0020	ZONE 3
D_LINK_1529	1461	0	57.21	54.29	66.00	63.00	0.0020	ZONE 3
D_LINK_1530	2560	0	54.29	49.17	63.00	65.00	0.0020	ZONE 3
D_LINK_1531	136	0	49.17	48.90	65.00	65.00	0.0020	ZONE 3
D_LINK_1532	2632	0	70.60	65.33	75.00	75.00	0.0020	ZONE 3
D_LINK_1533	1341	0	65.33	62.65	75.00	72.00	0.0020	ZONE 3
D_LINK_1534	2601	0	68.60	63.40	73.00	72.00	0.0020	ZONE 3
D_LINK_1535	1341	0	62.65	59.97	72.00	69.00	0.0020	ZONE 3
D_LINK_1536	2600	0	66.60	61.40	71.00	69.00	0.0020	ZONE 3
D_LINK_1537	1301	0	59.97	57.37	69.00	67.00	0.0020	ZONE 3
D_LINK_1538	2600	0	64.42	59.22	69.00	67.00	0.0020	ZONE 3
D_LINK_1539	1315	0	57.37	54.74	67.00	67.00	0.0020	ZONE 3
D_LINK_1540	2596	0	70.42	65.23	75.00	75.00	0.0020	ZONE 3
D_LINK_1541	1340	0	65.23	62.55	73.00	75.00	0.0020	ZONE 3
D_LINK_1542	2600	0	68.42	63.22	73.00	73.50	0.0020	ZONE 3
D_LINK_1543	1340	0	62.55	59.87	73.00	71.00	0.0020	ZONE 3
D_LINK_1544	2600	0	67.92	62.72	72.50	71.00	0.0020	ZONE 3
D_LINK_1545	1299	0	59.87	57.27	71.00	69.00	0.0020	ZONE 3
D_LINK_1546	1318	0	57.27	54.63	69.00	67.00	0.0020	ZONE 3
D_LINK_1547	2790	0	54.63	-4.57	65.00	0.01	0.0212	ZONE 3
D_LINK_1548	2200	0	65.42	61.02	70.00	70.00	0.0020	ZONE 2
D_LINK_1549	1087	0	61.02	58.84	70.00	69.00	0.0020	ZONE 2
D_LINK_1550	2200	0	63.60	59.20	68.00	69.00	0.0020	ZONE 2
D_LINK_1551	2689	0	65.60	60.22	70.00	70.00	0.0020	ZONE 1
D_LINK_1552	1078	0	60.22	58.06	70.00	68.00	0.0020	ZONE 1
D_LINK_1553	2682	0	64.60	59.23	69.00	68.00	0.0020	ZONE 1
D_LINK_1554	412	0	58.06	57.24	68.00	68.00	0.0020	ZONE 1
D_LINK_1555	1169	0	57.24	54.90	68.00	67.50	0.0020	ZONE 1
D_LINK_1556	2674	0	63.60	58.25	68.00	67.50	0.0020	ZONE 1
D_LINK_1557	1344	0	54.90	52.21	67.50	67.00	0.0020	ZONE 1
D_LINK_1558	2669	0	63.60	58.26	68.00	67.00	0.0020	ZONE 1
D_LINK_1559	1498	0	52.21	49.22	67.00	65.00	0.0020	ZONE 1
D_LINK_1560	2659	0	62.60	57.28	67.00	65.00	0.0020	ZONE 1
D_LINK_1561	1180	0	49.22	46.86	65.00	64.00	0.0020	ZONE 1
D_LINK_1562	2646	0	61.60	56.31	66.00	64.00	0.0020	ZONE 1
D_LINK_1563	1473	0	46.86	43.91	64.00	63.00	0.0020	ZONE 1
D_LINK_1564	2666	0	59.42	54.09	64.00	63.00	0.0020	ZONE 1
D_LINK_1565	1362	0	43.91	41.19	63.00	61.00	0.0020	ZONE 1
D_LINK_1566	2627	0	57.92	52.66	62.50	61.00	0.0020	ZONE 1
D_LINK_1567	1163	0	41.19	38.86	61.00	59.00	0.0020	ZONE 1
D_LINK_1568	2632	0	56.60	51.33	61.00	59.00	0.0020	ZONE 1



## CITY OF EL CENTRO SEWER MASTER PLAN UPDATE

10/10/94

## SEWER PIPELINE PHYSICAL DATA REPORT

PAGE 33

FILE RUN: SY\_URUN1

ULTIMATE SEWER COLLECTION SYSTEM

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	INVERT UP (ft)	INVERT DOWN (ft)	GROUND UP (ft)	GROUND DOWN (ft)	SLOPE	BASIN LOCATION
D_LINK_1569	1455	0	38.86	35.95	61.00	59.00	0.0020	ZONE 1
D_LINK_1570	2610	0	56.60	51.38	61.00	59.00	0.0020	ZONE 1
D_LINK_1571	1355	0	35.95	33.24	56.50	59.00	0.0020	ZONE 1
D_LINK_1572	2600	0	51.60	46.40	56.00	54.00	0.0020	ZONE 1
D_LINK_1573	1308	0	33.24	30.63	56.50	53.00	0.0020	ZONE 1
D_LINK_1574	2600	0	46.60	41.40	51.00	53.00	0.0020	ZONE 1
D_LINK_1575	2654	0	44.42	39.11	49.00	49.00	0.0020	ZONE 1
D_LINK_1576	1353	0	30.63	27.92	53.00	49.00	0.0020	ZONE 1
D_LINK_1578	2200	0	48.42	44.02	53.00	51.00	0.0020	ZONE 1
D_LINK_1579	2198	0	49.42	45.02	54.00	53.00	0.0020	ZONE 1
D_LINK_1580	2199	0	52.10	47.70	56.50	54.00	0.0020	ZONE 1
D_LINK_1581	2203	0	53.78	48.87	58.00	55.50	0.0022	ZONE 1
D_LINK_1582	2189	0	53.42	48.86	58.00	57.50	0.0020	ZONE 1



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 1

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1	509	27	8912.0	4.99	1.00	5559	2.07
LINK_2	405	27	8703.0	4.88	1.00	3978	2.09
LINK_3	248	15	2703.0	7.11	0.65	4252	2.47
LINK_4	381	15	2703.0	4.91	1.00	1163	2.47
LINK_5	367	15	2694.0	4.89	1.00	1447	2.47
LINK_6	448	15	2694.0	4.89	1.00	1373	2.47
LINK_7	477	15	2694.0	4.89	1.00	1145	2.47
LINK_8	715	15	2417.0	4.39	1.00	1210	2.49
LINK_9	287	15	2550.0	4.63	1.00	1732	2.48
LINK_10	348	15	2527.0	4.59	1.00	1340	2.48
LINK_11	296	15	2379.0	4.32	1.00	1362	2.49
LINK_12	405	15	2379.0	4.32	1.00	1164	2.49
LINK_13	149	12	1949.0	5.53	1.00	557	2.56
LINK_14	183	12	1923.0	5.46	1.00	749	2.57
LINK_15	377	12	2054.0	5.83	1.00	838	2.54
LINK_16	377	12	2048.0	5.81	1.00	710	2.54
LINK_17	173	12	2048.0	5.81	1.00	122	2.54
LINK_18	220	12	1983.0	5.63	1.00	794	2.55
LINK_19	133	12	1881.0	5.34	1.00	606	2.57
LINK_20	220	12	1705.0	4.84	1.00	611	2.61
LINK_21	25	12	1493.0	4.24	1.00	1110	2.65
LINK_22	34	12	1493.0	4.24	1.00	275	2.65
LINK_23	284	12	1411.0	4.00	1.00	807	2.66
LINK_24	55	12	595.0	0.20	0.00	0	2.87
LINK_25	225	12	1081.0	3.07	1.00	956	2.73
LINK_26	49	12	1356.0	0.20	0.00	0	2.67
LINK_27	242	12	1356.0	3.85	1.00	714	2.67
LINK_28	65	12	1334.0	3.78	1.00	1209	2.68
LINK_29	458	12	595.0	1.69	1.00	560	2.87
LINK_30	457	12	595.0	1.79	0.89	609	2.87
LINK_31	236	12	595.0	2.57	0.62	1006	2.87
LINK_32	242	12	595.0	1.69	1.00	525	2.87
LINK_33	73	8	275.0	1.75	1.00	156	3.11
LINK_34	450	12	595.0	1.69	1.00	575	2.87
LINK_35	326	12	577.0	1.82	0.84	628	2.88
LINK_36	355	12	562.0	1.59	1.00	417	2.88
LINK_37	327	12	319.0	1.52	0.57	620	3.07
LINK_38	93	12	308.0	1.50	0.56	622	3.08
LINK_39	254	21	1139.0	2.28	0.47	3194	2.72
LINK_40	637	21	1139.0	2.69	0.41	4014	2.72
LINK_41	0	**	2281.0	0.00	0.00	0	2.50
LINK_42	837	8	0.0	0.20	0.00	505	3.50
LINK_43	610	18	91.0	1.16	0.17	2113	3.44
LINK_44	627	18	91.0	1.16	0.17	2118	3.44
LINK_45	646	21	91.0	1.16	0.14	3186	3.44
LINK_46	587	21	91.0	1.16	0.14	3196	3.44
LINK_47	465	27	5952.0	3.34	1.00	5559	2.26
LINK_48	376	27	6069.0	3.56	0.91	6098	2.25
LINK_49	616	27	6214.0	3.48	1.00	1123	2.24





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 2

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_50	505	27	6214.0	3.48	1.00	5615	2.24
LINK_51	415	27	6364.0	3.57	1.00	3870	2.23
LINK_52	188	27	6364.0	3.57	1.00	2273	2.23
LINK_53	35	27	6364.0	5.06	0.67	9712	2.23
LINK_54	373	27	6364.0	3.57	1.00	5399	2.23
LINK_55	435	27	6364.0	3.57	1.00	4432	2.23
LINK_56	370	27	6418.0	5.50	0.62	10891	2.23
LINK_57	36	27	6418.0	0.20	0.00	0	2.23
LINK_58	219	27	6418.0	0.20	0.00	0	2.23
LINK_59	346	27	6418.0	3.60	1.00	6357	2.23
LINK_60	87	27	6468.0	3.62	1.00	5590	2.23
LINK_61	479	22	4315.0	3.64	1.00	3742	2.35
LINK_62	73	22	4315.0	3.64	1.00	945	2.35
LINK_63	66	22	4315.0	3.64	1.00	2980	2.35
LINK_64	342	27	4362.0	3.05	0.75	5537	2.34
LINK_65	840	27	4410.0	2.47	1.00	3936	2.34
LINK_66	1205	27	4973.0	2.79	1.00	3613	2.31
LINK_67	200	27	5873.0	3.29	1.00	5574	2.26
LINK_68	28	8	581.0	0.20	0.00	0	2.88
LINK_69	270	12	590.0	1.99	0.78	703	2.87
LINK_70	394	12	599.0	2.01	0.79	708	2.87
LINK_71	252	12	606.0	2.09	0.77	742	2.87
LINK_72	236	12	612.0	2.24	0.73	815	2.86
LINK_73	184	12	616.0	1.75	1.00	515	2.86
LINK_74	354	12	696.0	2.21	0.83	767	2.83
LINK_75	205	12	702.0	2.11	0.89	717	2.82
LINK_76	241	12	705.0	2.00	1.00	677	2.82
LINK_77	522	12	711.0	2.24	0.84	775	2.82
LINK_78	190	12	581.0	2.03	0.76	726	2.88
LINK_79	207	12	577.0	1.64	1.00	546	2.88
LINK_80	174	12	551.0	2.08	0.71	768	2.89
LINK_81	324	10	383.0	2.07	0.71	528	3.02
LINK_82	614	10	371.0	1.51	1.00	367	3.03
LINK_83	209	10	295.0	1.90	0.61	524	3.09
LINK_84	365	8	236.0	1.62	0.87	246	3.21
LINK_85	359	8	169.0	1.08	1.00	167	3.36
LINK_86	352	8	21.0	0.61	0.28	166	3.49
LINK_87	185	8	2.0	0.52	0.06	375	3.50
LINK_88	179	8	278.0	1.85	0.91	279	3.10
LINK_89	351	8	243.0	1.55	1.00	203	3.19
LINK_90	335	8	206.0	1.81	0.69	301	3.28
LINK_91	108	8	114.0	2.04	0.38	462	3.43
LINK_92	70	8	111.0	1.29	0.54	243	3.43
LINK_93	373	18	1814.0	2.29	1.00	1528	2.59
LINK_94	207	18	1844.0	2.33	1.00	1829	2.58
LINK_95	179	18	1845.0	2.54	0.85	1967	2.58
LINK_96	189	18	1875.0	3.37	0.67	2876	2.58
LINK_97	184	18	1875.0	3.42	0.66	2936	2.58
LINK_98	364	8	147.0	1.65	0.55	307	3.40





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 3

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_99	298	8	141.0	1.66	0.53	315	3.41
LINK_100	167	10	174.0	1.35	0.52	404	3.35
LINK_101	202	10	174.0	1.76	0.42	588	3.35
LINK_102	150	12	172.0	1.33	0.39	667	3.36
LINK_103	204	12	172.0	1.60	0.34	884	3.36
LINK_104	111	12	193.0	0.86	0.61	340	3.31
LINK_105	251	12	193.0	1.59	0.37	828	3.31
LINK_106	50	12	212.0	1.31	0.47	600	3.27
LINK_107	102	12	212.0	1.50	0.42	727	3.27
LINK_108	197	12	174.0	1.43	0.37	740	3.35
LINK_109	190	14	197.0	1.60	0.30	1277	3.30
LINK_110	170	14	143.0	1.54	0.26	1337	3.41
LINK_111	203	14	156.0	1.49	0.27	1258	3.39
LINK_112	163	14	156.0	1.55	0.27	1326	3.39
LINK_113	189	14	180.0	1.41	0.31	1112	3.34
LINK_114	194	14	180.0	1.23	0.34	918	3.34
LINK_115	162	8	137.0	0.20	0.00	0	3.41
LINK_116	208	8	137.0	1.67	0.52	322	3.41
LINK_117	236	12	630.0	2.37	0.71	873	2.85
LINK_118	244	12	644.0	2.07	0.82	718	2.85
LINK_119	325	12	676.0	1.92	1.00	333	2.83
LINK_120	239	12	771.0	2.49	0.82	867	2.80
LINK_121	248	12	792.0	2.25	1.00	734	2.79
LINK_122	235	12	795.0	2.26	1.00	739	2.79
LINK_123	300	12	807.0	2.29	1.00	807	2.79
LINK_124	118	12	808.0	2.29	1.00	532	2.79
LINK_125	225	8	120.0	1.60	0.48	320	3.42
LINK_126	167	8	120.0	1.34	0.55	249	3.42
LINK_127	415	18	2281.0	2.88	1.00	1485	2.50
LINK_128	500	18	2281.0	2.88	1.00	1582	2.50
LINK_129	183	18	2281.0	3.28	0.82	2567	2.50
LINK_130	416	18	2281.0	2.88	1.00	613	2.50
LINK_131	0	8	2281.0	**. **	0.10	*****	2.50
LINK_132	109	8	1645.0	10.50	0.00	0	2.62
LINK_133	271	18	2126.0	4.19	0.61	3721	2.53
LINK_134	413	18	2126.0	2.68	1.00	1115	2.53
LINK_135	452	18	2126.0	2.68	1.00	1043	2.53
LINK_136	40	18	2126.0	0.20	0.00	0	2.53
LINK_137	178	18	2164.0	2.73	1.00	614	2.52
LINK_138	47	18	2164.0	5.07	0.53	4874	2.52
LINK_139	388	18	2205.0	2.78	1.00	1399	2.51
LINK_140	345	18	2235.0	2.82	1.00	1763	2.50
LINK_141	409	18	2281.0	2.88	1.00	1855	2.50
LINK_142	236	18	2281.0	3.00	0.91	2281	2.50
LINK_143	141	18	2205.0	2.78	1.00	1867	2.51
LINK_144	356	15	255.0	2.06	0.28	1972	3.16
LINK_145	356	15	255.0	2.05	0.28	1966	3.16
LINK_146	416	15	1792.0	3.25	1.00	1453	2.59
LINK_147	364	15	1843.0	3.35	1.00	1345	2.58



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 4

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_148	358	15	1971.0	3.58	1.00	1229	2.56
LINK_149	386	15	2030.0	3.69	1.00	1155	2.54
LINK_150	368	15	2083.0	3.78	1.00	1212	2.53
LINK_151	369	15	2121.0	3.85	1.00	969	2.53
LINK_152	379	18	2158.0	2.72	1.00	1610	2.52
LINK_153	197	18	2205.0	3.05	0.85	2357	2.51
LINK_154	456	27	2568.0	2.26	0.61	4521	2.48
LINK_155	637	27	2656.0	2.58	0.56	5410	2.47
LINK_156	468	30	2794.0	3.06	0.43	9149	2.46
LINK_157	364	30	2794.0	2.72	0.47	7739	2.46
LINK_158	456	30	2794.0	2.62	0.49	7334	2.46
LINK_159	462	30	3026.0	2.67	0.51	7286	2.44
LINK_160	487	30	3026.0	3.73	0.40	11619	2.44
LINK_161	493	30	3026.0	2.71	0.51	7435	2.44
LINK_162	465	30	3235.0	2.77	0.52	7462	2.43
LINK_163	557	30	3235.0	2.69	0.53	7167	2.43
LINK_164	484	30	3235.0	5.42	0.31	19567	2.43
LINK_165	242	30	3235.0	2.11	0.66	5034	2.43
LINK_166	301	27	1996.0	2.53	0.45	5957	2.55
LINK_167	373	27	2092.0	2.45	0.48	5589	2.53
LINK_168	387	27	2092.0	2.39	0.49	5395	2.53
LINK_169	342	27	2119.0	2.45	0.49	5537	2.53
LINK_170	447	27	2119.0	2.37	0.50	5273	2.53
LINK_171	323	27	2189.0	2.42	0.51	5372	2.51
LINK_172	359	27	2189.0	2.49	0.49	5601	2.51
LINK_173	365	27	2209.0	2.25	0.54	4838	2.51
LINK_174	410	27	2568.0	2.64	0.53	5675	2.48
LINK_175	574	27	2568.0	2.62	0.54	5639	2.48
LINK_176	606	27	2568.0	2.52	0.55	5310	2.48
LINK_177	247	24	1276.0	2.52	0.39	5100	2.69
LINK_178	921	24	1501.0	2.34	0.46	4308	2.65
LINK_179	566	24	1588.0	1.79	0.60	2838	2.63
LINK_180	614	24	1593.0	2.46	0.47	4500	2.63
LINK_181	563	24	1604.0	2.49	0.46	4580	2.63
LINK_182	336	24	1707.0	2.26	0.53	3887	2.61
LINK_183	215	24	1745.0	2.39	0.51	4165	2.60
LINK_184	96	24	1745.0	2.22	0.54	3746	2.60
LINK_185	298	24	1781.0	2.34	0.53	3999	2.59
LINK_186	121	24	1842.0	2.46	0.52	4240	2.58
LINK_187	507	24	1842.0	2.52	0.51	4383	2.58
LINK_188	218	27	1876.0	2.49	0.44	5969	2.58
LINK_189	297	27	1940.0	2.37	0.47	5484	2.56
LINK_190	106	27	1969.0	2.35	0.47	5414	2.56
LINK_191	198	27	1969.0	2.30	0.48	5240	2.56
LINK_192	302	8	8.0	0.63	0.15	244	3.50
LINK_193	343	8	16.0	0.68	0.22	212	3.49
LINK_194	307	8	24.0	0.80	0.26	226	3.48
LINK_195	354	8	31.0	0.76	0.30	198	3.48
LINK_196	292	8	39.0	1.04	0.29	277	3.48



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 5

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_197	303	8	46.0	0.56	0.52	108	3.47
LINK_198	298	8	52.0	1.03	0.35	244	3.47
LINK_199	286	8	8.0	0.64	0.15	243	3.50
LINK_200	337	8	16.0	0.69	0.22	213	3.49
LINK_201	298	8	25.0	0.81	0.26	229	3.48
LINK_202	356	8	32.0	0.79	0.30	208	3.48
LINK_203	300	8	39.0	1.00	0.29	264	3.48
LINK_204	297	8	46.0	0.57	0.51	109	3.47
LINK_205	284	8	53.0	2.05	0.24	610	3.47
LINK_206	282	8	9.0	0.67	0.15	257	3.50
LINK_207	304	8	17.0	0.78	0.21	247	3.49
LINK_208	363	8	24.0	0.79	0.26	225	3.49
LINK_209	288	8	32.0	0.89	0.28	242	3.48
LINK_210	299	8	38.0	0.94	0.30	243	3.48
LINK_211	285	8	46.0	1.00	0.33	249	3.47
LINK_212	290	8	8.0	0.65	0.15	251	3.50
LINK_213	301	8	16.0	0.76	0.21	247	3.49
LINK_214	367	8	22.0	0.78	0.26	223	3.49
LINK_215	291	8	29.0	0.88	0.27	245	3.48
LINK_216	293	8	36.0	0.92	0.29	244	3.48
LINK_217	284	8	42.0	0.97	0.32	248	3.47
LINK_218	293	8	10.0	0.60	0.18	213	3.49
LINK_219	232	8	13.0	0.74	0.18	257	3.49
LINK_220	254	8	13.0	0.96	0.16	361	3.49
LINK_221	380	8	11.0	0.68	0.18	240	3.49
LINK_222	431	8	45.0	0.99	0.32	248	3.47
LINK_223	463	8	58.0	1.05	0.38	238	3.46
LINK_224	439	8	42.0	0.97	0.32	245	3.47
LINK_225	455	8	54.0	1.04	0.36	242	3.47
LINK_226	203	8	27.0	1.01	0.24	298	3.48
LINK_227	449	8	143.0	1.40	0.62	243	3.41
LINK_228	457	8	150.0	1.18	0.76	189	3.40
LINK_229	235	8	12.0	0.77	0.17	275	3.49
LINK_230	266	8	22.0	0.75	0.26	213	3.49
LINK_231	244	8	32.0	0.97	0.27	270	3.48
LINK_232	236	8	73.0	0.99	0.47	200	3.45
LINK_233	312	8	81.0	1.16	0.46	238	3.45
LINK_234	316	8	112.0	1.28	0.54	241	3.43
LINK_235	288	8	426.0	2.72	1.00	136	2.98
LINK_236	333	8	583.0	3.72	1.00	195	2.87
LINK_237	321	8	583.0	3.72	1.00	201	2.87
LINK_238	351	8	59.0	1.06	0.38	241	3.46
LINK_239	346	8	76.0	1.15	0.44	243	3.45
LINK_240	195	8	91.0	1.24	0.48	249	3.44
LINK_241	610	8	8.0	0.58	0.16	218	3.50
LINK_242	270	8	4.0	0.64	0.10	319	3.50
LINK_243	331	8	8.0	0.72	0.14	293	3.50
LINK_244	256	8	8.0	0.79	0.13	331	3.50
LINK_245	313	8	15.0	0.88	0.18	309	3.49





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 6

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_246	257	8	263.0	1.68	1.00	260	3.14
LINK_247	295	8	267.0	1.86	0.86	283	3.13
LINK_248	311	8	8.0	0.59	0.16	220	3.50
LINK_249	215	8	15.0	0.82	0.19	277	3.49
LINK_250	258	8	8.0	0.77	0.14	319	3.50
LINK_251	307	8	15.0	0.91	0.18	324	3.49
LINK_252	329	8	30.0	0.85	0.28	234	3.48
LINK_253	317	8	303.0	1.93	1.00	248	3.08
LINK_254	130	8	315.0	2.01	1.00	158	3.07
LINK_255	127	8	360.0	2.77	0.77	437	3.04
LINK_256	239	8	360.0	2.30	1.00	161	3.04
LINK_257	156	8	403.0	2.57	1.00	272	3.00
LINK_258	184	8	403.0	2.57	1.00	237	3.00
LINK_259	202	8	403.0	2.69	0.91	405	3.00
LINK_260	111	8	0.0	0.20	0.00	432	3.50
LINK_261	285	8	75.0	1.18	0.42	254	3.45
LINK_262	312	8	75.0	1.02	0.47	206	3.45
LINK_263	179	8	75.0	1.71	0.32	432	3.45
LINK_264	317	12	104.0	1.18	0.29	703	3.43
LINK_265	290	12	108.0	1.19	0.30	698	3.43
LINK_266	308	12	496.0	1.87	0.71	689	2.92
LINK_267	410	12	506.0	1.97	0.69	738	2.91
LINK_268	344	8	9.0	0.44	0.21	141	3.49
LINK_269	414	8	19.0	1.07	0.18	372	3.49
LINK_270	371	8	11.0	0.68	0.18	241	3.49
LINK_271	384	8	22.0	0.81	0.25	237	3.49
LINK_272	400	8	5.0	0.57	0.13	243	3.50
LINK_273	348	8	11.0	0.72	0.17	261	3.49
LINK_274	332	8	96.0	0.89	0.65	152	3.44
LINK_275	334	8	117.0	0.93	0.75	149	3.42
LINK_276	328	8	135.0	1.34	0.61	234	3.41
LINK_277	290	8	28.0	1.09	0.24	325	3.48
LINK_278	352	8	21.0	0.49	0.31	126	3.49
LINK_279	302	8	11.0	0.70	0.17	250	3.49
LINK_280	288	8	8.0	0.64	0.16	244	3.50
LINK_281	332	8	11.0	0.68	0.18	239	3.49
LINK_282	321	8	14.0	0.73	0.19	245	3.49
LINK_283	173	8	42.0	0.90	0.33	223	3.47
LINK_284	224	8	24.0	0.86	0.25	246	3.48
LINK_285	289	8	24.0	0.85	0.26	243	3.48
LINK_286	425	8	71.0	1.10	0.43	234	3.45
LINK_287	394	8	77.0	1.15	0.44	242	3.45
LINK_288	349	8	239.0	1.52	1.00	231	3.20
LINK_289	484	8	239.0	1.52	1.00	217	3.20
LINK_290	325	8	239.0	1.89	0.76	300	3.20
LINK_291	284	8	3.0	0.46	0.09	241	3.50
LINK_292	310	8	53.0	1.24	0.31	318	3.47
LINK_293	151	8	119.0	1.39	0.53	262	3.42
LINK_294	274	8	137.0	1.82	0.48	364	3.41



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 7

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_295	394	8	137.0	1.49	0.57	272	3.41
LINK_296	458	8	90.0	0.97	0.57	178	3.44
LINK_297	427	8	129.0	1.41	0.57	258	3.42
LINK_298	461	8	149.0	1.51	0.60	268	3.40
LINK_299	302	8	167.0	1.78	0.58	322	3.37
LINK_300	136	8	185.0	1.74	0.64	298	3.33
LINK_301	435	8	191.0	1.48	0.77	235	3.31
LINK_302	70	8	191.0	1.44	0.79	225	3.31
LINK_303	253	8	35.0	1.02	0.28	280	3.48
LINK_304	171	8	35.0	0.71	0.35	171	3.48
LINK_305	188	8	35.0	0.85	0.30	221	3.48
LINK_306	553	8	72.0	1.35	0.37	314	3.45
LINK_307	329	8	140.0	1.45	0.59	258	3.41
LINK_308	348	8	140.0	1.50	0.58	272	3.41
LINK_309	320	8	161.0	1.71	0.58	308	3.38
LINK_310	261	8	161.0	1.34	0.72	218	3.38
LINK_311	58	8	161.0	1.37	0.71	226	3.38
LINK_312	408	8	35.0	0.84	0.31	217	3.48
LINK_313	345	8	35.0	0.82	0.31	209	3.48
LINK_314	377	8	56.0	1.27	0.32	322	3.46
LINK_315	330	8	56.0	1.17	0.34	285	3.46
LINK_316	507	8	86.0	1.34	0.43	286	3.44
LINK_317	347	8	86.0	1.55	0.38	351	3.44
LINK_318	458	8	154.0	1.40	0.67	236	3.40
LINK_319	215	8	154.0	1.43	0.65	243	3.40
LINK_320	320	8	160.0	1.02	1.00	91	3.38
LINK_321	333	8	267.0	1.71	1.00	235	3.13
LINK_322	160	8	267.0	2.15	0.75	344	3.13
LINK_323	295	8	267.0	1.71	1.00	192	3.13
LINK_324	301	8	267.0	1.71	1.00	243	3.13
LINK_325	511	8	414.0	2.65	1.00	232	2.99
LINK_326	490	8	435.0	2.78	1.00	225	2.97
LINK_327	53	10	435.0	1.90	0.88	449	2.97
LINK_328	257	10	435.0	3.02	0.57	861	2.97
LINK_329	92	8	0.0	0.20	0.00	358	3.50
LINK_330	208	8	52.0	1.31	0.30	343	3.47
LINK_331	47	8	52.0	0.83	0.42	177	3.47
LINK_332	264	8	52.0	1.13	0.33	280	3.47
LINK_333	280	8	79.0	1.38	0.39	306	3.45
LINK_334	299	8	79.0	1.23	0.43	261	3.45
LINK_335	287	8	79.0	1.36	0.40	303	3.45
LINK_336	257	8	102.0	1.51	0.44	316	3.43
LINK_337	235	8	102.0	2.10	0.34	510	3.43
LINK_338	283	8	18.0	0.72	0.24	217	3.49
LINK_339	404	8	32.0	0.82	0.29	216	3.48
LINK_340	367	8	40.0	1.21	0.27	336	3.47
LINK_341	413	8	47.0	1.13	0.30	294	3.47
LINK_342	254	8	47.0	1.16	0.30	305	3.47
LINK_343	242	8	53.0	1.29	0.30	335	3.47



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 8

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_344	402	8	17.0	0.75	0.21	239	3.49
LINK_345	468	8	29.0	0.84	0.28	230	3.48
LINK_346	416	8	40.0	1.77	0.22	553	3.47
LINK_347	415	8	57.0	1.41	0.30	371	3.46
LINK_348	459	8	69.0	1.39	0.35	332	3.46
LINK_349	410	8	77.0	1.55	0.35	374	3.45
LINK_350	371	8	126.0	1.36	0.57	249	3.42
LINK_351	427	8	155.0	1.42	0.66	241	3.40
LINK_352	395	8	173.0	1.53	0.68	255	3.36
LINK_353	134	8	220.0	3.17	0.45	656	3.25
LINK_354	864	12	234.0	1.80	0.40	898	3.21
LINK_355	429	12	246.0	2.05	0.37	1072	3.19
LINK_356	425	8	12.0	1.03	0.14	410	3.49
LINK_357	440	8	25.0	1.07	0.22	334	3.48
LINK_358	395	8	32.0	1.14	0.25	329	3.48
LINK_359	504	8	12.0	0.85	0.16	318	3.49
LINK_360	418	8	25.0	1.17	0.21	376	3.48
LINK_361	349	8	32.0	1.23	0.24	366	3.48
LINK_362	194	8	3.0	0.51	0.10	253	3.50
LINK_363	188	8	8.0	1.11	0.11	533	3.50
LINK_364	191	8	8.0	0.67	0.15	261	3.50
LINK_365	160	8	5.0	0.74	0.10	370	3.50
LINK_366	287	8	18.0	0.85	0.21	272	3.49
LINK_367	298	8	29.0	1.03	0.25	297	3.48
LINK_368	187	8	8.0	0.74	0.13	310	3.50
LINK_369	178	8	10.0	0.79	0.15	299	3.49
LINK_370	275	8	5.0	0.55	0.12	243	3.50
LINK_371	173	8	8.0	0.70	0.14	283	3.50
LINK_372	307	8	20.0	0.89	0.22	281	3.49
LINK_373	268	8	31.0	0.70	0.32	176	3.48
LINK_374	364	8	41.0	0.99	0.31	255	3.47
LINK_375	324	8	49.0	1.46	0.27	404	3.47
LINK_376	173	8	5.0	0.68	0.11	312	3.50
LINK_377	332	8	14.0	0.86	0.18	300	3.49
LINK_378	333	8	24.0	0.87	0.25	251	3.48
LINK_379	344	8	14.0	0.84	0.18	296	3.49
LINK_380	474	8	25.0	0.92	0.25	265	3.48
LINK_381	347	12	261.0	1.58	0.47	720	3.15
LINK_382	294	12	279.0	1.50	0.52	648	3.10
LINK_383	321	12	319.0	1.65	0.54	699	3.07
LINK_384	298	12	339.0	1.66	0.56	689	3.05
LINK_385	167	8	5.0	0.54	0.12	242	3.50
LINK_386	323	8	15.0	0.88	0.18	310	3.49
LINK_387	341	8	25.0	1.07	0.22	336	3.48
LINK_388	155	12	288.0	1.81	0.46	834	3.09
LINK_389	308	8	11.0	1.09	0.14	449	3.49
LINK_390	353	8	19.0	1.18	0.18	420	3.49
LINK_391	426	8	87.0	1.26	0.45	262	3.44
LINK_392	455	8	93.0	1.52	0.41	329	3.44





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 9

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_393	396	8	99.0	2.04	0.34	495	3.44
LINK_394	320	8	136.0	1.71	0.50	334	3.41
LINK_395	139	8	222.0	1.74	0.76	277	3.24
LINK_396	367	8	12.0	0.66	0.19	225	3.49
LINK_397	463	8	26.0	1.09	0.22	339	3.48
LINK_398	395	8	37.0	1.38	0.24	407	3.48
LINK_399	397	8	13.0	0.97	0.16	366	3.49
LINK_400	448	8	24.0	1.07	0.21	339	3.49
LINK_401	354	8	14.0	0.93	0.17	339	3.49
LINK_402	458	8	22.0	0.97	0.22	302	3.49
LINK_403	325	8	26.0	1.00	0.24	295	3.48
LINK_404	302	8	54.0	1.30	0.31	337	3.47
LINK_405	376	8	13.0	0.98	0.16	372	3.49
LINK_406	467	8	23.0	1.05	0.21	335	3.49
LINK_407	417	8	86.0	1.53	0.39	344	3.44
LINK_408	228	8	15.0	0.75	0.20	244	3.49
LINK_409	182	8	15.0	0.97	0.17	351	3.49
LINK_410	310	8	101.0	1.64	0.41	355	3.44
LINK_411	327	8	11.0	0.74	0.17	267	3.49
LINK_412	292	8	45.0	1.11	0.30	292	3.47
LINK_413	327	8	56.0	1.18	0.34	290	3.46
LINK_414	336	8	64.0	1.32	0.34	321	3.46
LINK_415	145	8	64.0	1.27	0.35	303	3.46
LINK_416	421	12	347.0	2.06	0.48	927	3.05
LINK_417	462	12	357.0	1.84	0.54	778	3.04
LINK_418	396	12	364.0	2.03	0.51	886	3.03
LINK_419	218	8	2.0	0.45	0.05	361	3.50
LINK_420	209	8	11.0	0.79	0.16	291	3.49
LINK_421	225	8	12.0	0.81	0.16	301	3.49
LINK_422	222	8	12.0	0.81	0.16	301	3.49
LINK_423	300	8	17.0	0.86	0.20	281	3.49
LINK_424	172	8	33.0	1.08	0.26	307	3.48
LINK_425	147	8	33.0	0.99	0.27	273	3.48
LINK_426	243	8	48.0	1.13	0.31	288	3.47
LINK_427	496	8	59.0	1.07	0.38	242	3.46
LINK_428	488	8	74.0	1.05	0.46	214	3.45
LINK_429	431	8	6.0	0.62	0.13	260	3.50
LINK_430	411	8	21.0	0.90	0.22	280	3.49
LINK_431	350	8	7.0	0.61	0.14	248	3.50
LINK_432	353	8	21.0	0.86	0.23	262	3.49
LINK_433	347	8	7.0	0.67	0.13	278	3.50
LINK_434	358	8	21.0	0.85	0.23	257	3.49
LINK_435	378	8	13.0	0.77	0.18	268	3.49
LINK_436	340	8	22.0	0.83	0.24	243	3.49
LINK_437	285	8	22.0	0.95	0.22	295	3.49
LINK_438	284	8	143.0	1.52	0.58	274	3.41
LINK_439	291	12	162.0	1.40	0.36	746	3.38
LINK_440	293	12	242.0	1.30	0.52	562	3.19
LINK_441	361	8	25.0	0.85	0.26	244	3.48





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 10

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_442	377	8	37.0	0.92	0.30	242	3.48
LINK_443	340	8	37.0	1.77	0.21	571	3.48
LINK_444	279	8	44.0	0.89	0.34	216	3.47
LINK_445	227	8	50.0	1.13	0.32	286	3.47
LINK_446	272	8	55.0	1.10	0.35	264	3.47
LINK_447	394	8	13.0	0.70	0.19	232	3.49
LINK_448	336	8	31.0	0.90	0.27	248	3.48
LINK_449	332	8	38.0	1.54	0.23	469	3.48
LINK_450	261	8	47.0	1.20	0.30	316	3.47
LINK_451	227	8	53.0	1.18	0.32	295	3.47
LINK_452	293	8	57.0	1.33	0.31	342	3.46
LINK_453	154	8	45.0	1.94	0.22	607	3.47
LINK_454	447	8	14.0	0.67	0.20	218	3.49
LINK_455	328	8	29.0	0.91	0.26	256	3.48
LINK_456	337	8	37.0	1.68	0.21	535	3.48
LINK_457	207	8	44.0	1.36	0.27	380	3.47
LINK_458	296	8	52.0	1.13	0.33	281	3.47
LINK_459	174	8	107.0	1.35	0.50	264	3.43
LINK_460	214	8	107.0	1.17	0.57	213	3.43
LINK_461	313	8	163.0	1.39	0.71	228	3.38
LINK_462	250	8	163.0	1.62	0.61	283	3.38
LINK_463	416	8	12.0	0.70	0.18	243	3.49
LINK_464	414	8	26.0	1.53	0.18	534	3.48
LINK_465	393	8	38.0	0.95	0.30	248	3.48
LINK_466	319	8	46.0	1.01	0.32	253	3.47
LINK_467	209	8	54.0	1.01	0.37	235	3.47
LINK_468	145	8	107.0	0.85	0.76	135	3.43
LINK_469	224	8	121.0	1.49	0.51	288	3.42
LINK_470	369	8	275.0	2.18	0.75	348	3.11
LINK_471	191	8	26.0	0.96	0.25	281	3.48
LINK_472	320	8	26.0	0.96	0.25	280	3.48
LINK_473	231	8	3.0	0.47	0.09	245	3.50
LINK_474	323	8	12.0	0.71	0.18	249	3.49
LINK_475	361	8	23.0	0.82	0.25	236	3.49
LINK_476	141	8	29.0	0.86	0.27	238	3.48
LINK_477	332	8	10.0	0.64	0.17	231	3.49
LINK_478	296	8	20.0	0.81	0.23	245	3.49
LINK_479	178	8	25.0	0.85	0.26	244	3.48
LINK_480	195	8	53.0	0.95	0.39	213	3.47
LINK_481	125	8	53.0	0.98	0.38	223	3.47
LINK_482	227	8	71.0	1.16	0.41	253	3.45
LINK_483	45	8	71.0	1.35	0.37	314	3.45
LINK_484	629	8	90.0	1.02	0.55	190	3.44
LINK_485	322	8	90.0	2.01	0.32	505	3.44
LINK_486	340	6	10.0	1.21	0.17	245	3.49
LINK_487	110	6	6.0	1.12	0.13	271	3.50
LINK_488	313	6	14.0	1.33	0.19	253	3.49
LINK_489	474	8	12.0	0.65	0.19	218	3.49
LINK_490	469	8	15.0	0.54	0.25	155	3.49



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 11

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_491	527	6	22.0	0.77	0.36	102	3.49
LINK_492	116	6	29.0	1.32	0.30	196	3.48
LINK_493	272	6	35.0	1.34	0.33	185	3.48
LINK_494	453	8	20.0	0.87	0.22	274	3.49
LINK_495	166	8	25.0	0.72	0.28	198	3.48
LINK_496	266	8	31.0	0.88	0.28	240	3.48
LINK_497	155	10	188.0	1.26	0.59	354	3.32
LINK_498	319	10	216.0	1.61	0.54	475	3.26
LINK_499	313	10	247.0	1.47	0.65	390	3.18
LINK_500	308	10	260.0	1.64	0.62	446	3.15
LINK_501	152	10	269.0	1.31	0.78	320	3.13
LINK_502	332	10	269.0	1.67	0.63	453	3.13
LINK_503	350	6	13.0	1.16	0.20	216	3.49
LINK_504	387	6	24.0	1.27	0.27	198	3.49
LINK_505	357	6	10.0	0.86	0.21	155	3.49
LINK_506	313	6	21.0	1.56	0.22	271	3.49
LINK_507	318	6	31.0	1.65	0.27	257	3.48
LINK_508	169	10	293.0	1.20	1.00	273	3.09
LINK_509	182	10	313.0	1.62	0.74	407	3.07
LINK_510	230	10	313.0	1.59	0.75	395	3.07
LINK_511	82	8	8.0	0.58	0.16	216	3.50
LINK_512	263	8	8.0	0.41	0.20	134	3.50
LINK_513	296	8	16.0	0.71	0.22	221	3.49
LINK_514	313	8	16.0	0.82	0.20	270	3.49
LINK_515	377	8	6.0	0.60	0.12	264	3.50
LINK_516	266	8	9.0	0.74	0.15	281	3.49
LINK_517	168	8	33.0	1.19	0.25	346	3.48
LINK_518	208	8	35.0	1.09	0.27	304	3.48
LINK_519	346	8	45.0	1.01	0.32	255	3.47
LINK_520	292	8	56.0	1.16	0.34	283	3.46
LINK_521	405	8	16.0	0.81	0.20	267	3.49
LINK_522	284	8	27.0	0.98	0.25	287	3.48
LINK_523	381	8	14.0	0.61	0.22	187	3.49
LINK_524	349	8	25.0	0.94	0.25	274	3.48
LINK_525	277	8	10.0	0.80	0.15	308	3.49
LINK_526	326	8	21.0	0.81	0.24	241	3.49
LINK_527	371	8	75.0	1.28	0.40	282	3.45
LINK_528	372	8	100.0	1.38	0.47	280	3.44
LINK_529	202	8	180.0	1.69	0.65	289	3.34
LINK_530	123	8	180.0	1.76	0.62	306	3.34
LINK_531	342	8	9.0	1.14	0.11	538	3.49
LINK_532	213	6	8.0	1.10	0.15	239	3.50
LINK_533	80	8	5.0	0.48	0.13	202	3.50
LINK_534	326	8	8.0	0.54	0.16	202	3.50
LINK_535	281	8	11.0	0.62	0.19	210	3.49
LINK_536	582	8	28.0	0.80	0.28	218	3.48
LINK_537	281	8	33.0	0.78	0.31	200	3.48
LINK_538	137	8	3.0	0.37	0.12	167	3.50
LINK_539	210	8	8.0	0.99	0.11	465	3.50



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 12

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_540	273	8	9.0	0.81	0.14	319	3.49
LINK_541	262	8	11.0	0.72	0.17	260	3.49
LINK_542	161	8	3.0	0.45	0.10	223	3.50
LINK_543	297	8	19.0	0.71	0.24	212	3.49
LINK_544	163	8	31.0	0.97	0.27	273	3.48
LINK_545	140	8	33.0	0.95	0.28	260	3.48
LINK_546	302	8	46.0	1.08	0.31	274	3.47
LINK_547	553	8	11.0	0.63	0.18	217	3.49
LINK_548	82	8	3.0	0.57	0.08	340	3.50
LINK_549	246	8	16.0	0.64	0.24	193	3.49
LINK_550	440	8	9.0	0.57	0.17	204	3.49
LINK_551	133	8	12.0	0.75	0.18	262	3.49
LINK_552	123	8	31.0	0.94	0.27	259	3.48
LINK_553	183	8	33.0	0.76	0.32	193	3.48
LINK_554	168	8	2.0	0.44	0.08	255	3.50
LINK_555	271	8	25.0	0.94	0.24	278	3.48
LINK_556	358	8	18.0	0.72	0.23	219	3.49
LINK_557	301	8	9.0	0.64	0.17	234	3.49
LINK_558	119	8	7.0	0.82	0.12	369	3.50
LINK_559	124	8	5.0	0.74	0.11	355	3.50
LINK_560	129	8	6.0	0.59	0.13	249	3.50
LINK_561	303	8	27.0	0.91	0.26	261	3.48
LINK_562	309	8	17.0	0.80	0.21	257	3.49
LINK_563	323	8	6.0	0.58	0.14	234	3.50
LINK_564	275	8	10.0	0.71	0.16	260	3.49
LINK_565	278	8	14.0	0.75	0.20	250	3.49
LINK_566	173	8	25.0	0.79	0.26	223	3.48
LINK_567	406	8	34.0	0.90	0.29	241	3.48
LINK_568	348	8	44.0	0.98	0.32	247	3.47
LINK_569	111	8	7.0	0.81	0.12	368	3.50
LINK_570	295	8	83.0	1.11	0.48	222	3.45
LINK_571	310	8	111.0	1.24	0.56	229	3.43
LINK_572	146	8	182.0	1.95	0.57	354	3.34
LINK_573	484	8	188.0	1.37	0.81	213	3.32
LINK_574	382	8	15.0	0.76	0.20	247	3.49
LINK_575	417	8	26.0	0.93	0.25	271	3.48
LINK_576	317	8	33.0	0.99	0.27	275	3.48
LINK_577	330	8	5.0	0.58	0.12	256	3.50
LINK_578	343	8	10.0	0.46	0.21	147	3.49
LINK_579	345	8	45.0	0.81	0.38	183	3.47
LINK_580	362	8	229.0	1.55	0.89	234	3.23
LINK_581	262	8	232.0	1.48	1.00	220	3.22
LINK_582	345	8	236.0	1.50	1.00	187	3.21
LINK_583	234	8	261.0	1.67	1.00	204	3.15
LINK_584	262	8	261.0	1.67	1.00	174	3.15
LINK_585	130	8	9.0	0.81	0.13	337	3.50
LINK_586	451	8	20.0	0.98	0.20	321	3.49
LINK_587	80	8	20.0	1.06	0.19	359	3.49
LINK_588	258	8	11.0	0.91	0.15	355	3.49





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 13

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_589	310	8	21.0	1.00	0.21	319	3.49
LINK_590	343	8	30.0	1.00	0.26	285	3.48
LINK_591	349	8	38.0	1.07	0.28	294	3.48
LINK_592	268	8	11.0	0.90	0.15	348	3.49
LINK_593	330	8	21.0	0.97	0.21	309	3.49
LINK_594	299	8	30.0	1.10	0.25	319	3.48
LINK_595	374	8	37.0	1.02	0.28	277	3.48
LINK_596	323	10	98.0	1.21	0.36	442	3.44
LINK_597	323	10	218.0	1.64	0.53	484	3.25
LINK_598	229	8	11.0	0.89	0.15	343	3.49
LINK_599	336	8	21.0	0.91	0.22	283	3.49
LINK_600	305	8	29.0	1.03	0.25	297	3.48
LINK_601	347	8	37.0	1.03	0.28	280	3.48
LINK_602	283	8	11.0	0.86	0.16	325	3.49
LINK_603	324	8	22.0	0.93	0.22	286	3.49
LINK_604	346	8	31.0	0.98	0.26	274	3.48
LINK_605	296	8	38.0	1.11	0.28	305	3.48
LINK_606	307	8	62.0	1.27	0.34	306	3.46
LINK_607	169	10	248.0	1.62	0.60	448	3.18
LINK_608	196	10	248.0	1.01	1.00	244	3.18
LINK_609	211	8	100.0	1.05	0.59	187	3.44
LINK_610	320	8	55.0	1.34	0.30	349	3.47
LINK_611	300	8	32.0	1.22	0.24	359	3.48
LINK_612	305	8	17.0	0.79	0.21	253	3.49
LINK_613	316	8	28.0	0.89	0.27	248	3.48
LINK_614	306	8	28.0	0.87	0.27	241	3.48
LINK_615	19	8	83.0	1.99	0.31	514	3.45
LINK_616	93	8	178.0	1.95	0.56	356	3.34
LINK_617	89	8	178.0	1.97	0.56	364	3.34
LINK_618	160	8	190.0	3.68	0.36	865	3.32
LINK_619	134	8	1.0	0.41	0.06	308	3.50
LINK_620	142	8	2.0	0.47	0.07	299	3.50
LINK_621	72	8	4.0	0.71	0.09	373	3.50
LINK_622	337	8	26.0	0.99	0.24	295	3.48
LINK_623	409	8	26.0	0.85	0.26	240	3.48
LINK_624	406	8	47.0	1.09	0.31	278	3.47
LINK_625	357	8	26.0	0.90	0.26	259	3.48
LINK_626	401	8	26.0	0.80	0.27	224	3.48
LINK_627	416	8	48.0	1.00	0.34	244	3.47
LINK_628	437	8	2.0	0.49	0.07	312	3.50
LINK_629	446	8	54.0	1.07	0.35	255	3.47
LINK_630	453	8	102.0	1.30	0.50	253	3.43
LINK_631	263	8	7.0	0.62	0.15	244	3.50
LINK_632	271	8	8.0	0.63	0.15	240	3.50
LINK_633	308	8	11.0	0.67	0.17	242	3.49
LINK_634	296	8	19.0	0.81	0.23	249	3.49
LINK_635	298	8	23.0	0.87	0.24	258	3.49
LINK_636	361	8	23.0	0.80	0.25	231	3.49
LINK_637	216	8	1094.0	6.98	1.00	274	2.73



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 14

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_638	375	8	16.0	0.82	0.20	266	3.49
LINK_639	415	8	33.0	0.91	0.28	247	3.48
LINK_640	406	8	50.0	1.30	0.29	346	3.47
LINK_641	221	8	1204.0	7.68	1.00	356	2.70
LINK_642	552	8	1204.0	7.68	1.00	249	2.70
LINK_643	365	8	24.0	0.97	0.23	296	3.49
LINK_644	597	8	33.0	0.81	0.30	212	3.48
LINK_645	349	8	47.0	1.02	0.33	254	3.47
LINK_646	200	8	15.0	0.76	0.20	255	3.49
LINK_647	225	8	15.0	0.84	0.18	292	3.49
LINK_648	217	8	24.0	0.45	0.37	104	3.49
LINK_649	320	8	37.0	0.86	0.31	219	3.48
LINK_650	191	8	47.0	1.10	0.31	284	3.47
LINK_651	156	8	47.0	1.08	0.31	275	3.47
LINK_652	379	8	47.0	1.07	0.31	274	3.47
LINK_653	365	8	92.0	1.96	0.33	482	3.44
LINK_654	119	8	7.0	0.71	0.13	299	3.50
LINK_655	185	8	7.0	0.63	0.14	250	3.50
LINK_656	180	8	0.0	0.20	0.00	91	3.50
LINK_657	215	8	0.0	0.20	0.00	74	3.50
LINK_658	291	8	0.0	0.20	0.00	162	3.50
LINK_659	482	8	11.0	0.65	0.18	230	3.49
LINK_660	425	8	27.0	0.89	0.26	251	3.48
LINK_661	296	8	8.0	0.66	0.15	253	3.50
LINK_662	190	8	16.0	0.70	0.22	220	3.49
LINK_663	416	8	25.0	0.90	0.25	261	3.48
LINK_664	153	8	25.0	0.93	0.24	274	3.48
LINK_665	187	8	25.0	0.79	0.26	221	3.48
LINK_666	154	8	51.0	0.93	0.38	210	3.47
LINK_667	180	8	58.0	1.06	0.38	243	3.46
LINK_668	335	8	97.0	1.48	0.43	314	3.44
LINK_669	80	8	91.0	1.79	0.35	425	3.44
LINK_670	60	8	87.0	0.20	0.00	0	3.44
LINK_671	432	8	26.0	0.84	0.26	237	3.48
LINK_672	472	8	9.0	0.66	0.16	241	3.49
LINK_673	82	8	9.0	0.97	0.12	429	3.49
LINK_674	138	8	7.0	0.66	0.13	274	3.50
LINK_675	128	8	2.0	0.52	0.08	311	3.50
LINK_676	129	8	2.0	0.44	0.09	239	3.50
LINK_677	51	8	74.0	3.17	0.22	984	3.45
LINK_678	51	8	74.0	1.72	0.31	437	3.45
LINK_679	89	8	74.0	1.10	0.44	230	3.45
LINK_680	186	8	70.0	1.23	0.39	276	3.46
LINK_681	103	8	64.0	1.19	0.37	273	3.46
LINK_682	79	8	57.0	1.04	0.38	237	3.46
LINK_683	76	8	57.0	1.41	0.30	369	3.46
LINK_684	220	8	49.0	1.03	0.34	251	3.47
LINK_685	250	8	49.0	0.89	0.38	203	3.47
LINK_686	254	8	0.0	0.20	0.00	248	3.50



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 15

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_687	475	8	17.0	0.75	0.22	234	3.49
LINK_688	476	8	32.0	1.00	0.27	281	3.48
LINK_689	84	8	20.0	0.80	0.23	245	3.49
LINK_690	205	8	20.0	0.97	0.21	313	3.49
LINK_691	166	8	27.0	1.22	0.21	389	3.48
LINK_692	353	8	49.0	1.04	0.34	255	3.47
LINK_693	301	8	49.0	1.08	0.33	269	3.47
LINK_694	128	8	49.0	0.80	0.42	173	3.47
LINK_695	342	8	112.0	1.19	0.58	214	3.43
LINK_696	185	8	123.0	1.31	0.58	236	3.42
LINK_697	537	8	160.0	1.48	0.65	253	3.38
LINK_698	77	8	160.0	1.88	0.53	356	3.38
LINK_699	460	8	203.0	1.71	0.71	280	3.29
LINK_700	582	8	25.0	0.84	0.26	238	3.48
LINK_701	374	8	50.0	0.98	0.36	232	3.47
LINK_702	319	8	50.0	1.01	0.35	243	3.47
LINK_703	267	8	61.0	1.05	0.40	233	3.46
LINK_704	172	8	61.0	1.11	0.38	252	3.46
LINK_705	473	8	82.0	1.04	0.50	203	3.45
LINK_706	266	8	82.0	1.43	0.39	320	3.45
LINK_707	316	8	12.0	0.66	0.19	223	3.49
LINK_708	282	8	20.0	0.62	0.27	174	3.49
LINK_709	423	8	34.0	0.94	0.28	253	3.48
LINK_710	329	8	41.0	1.02	0.30	266	3.47
LINK_711	484	8	59.0	1.09	0.37	252	3.46
LINK_712	472	8	72.0	1.21	0.41	264	3.45
LINK_713	297	8	13.0	0.74	0.19	256	3.49
LINK_714	285	8	20.0	0.89	0.22	281	3.49
LINK_715	343	8	34.0	0.85	0.30	222	3.48
LINK_716	362	8	41.0	1.07	0.29	286	3.47
LINK_717	565	8	59.0	1.14	0.36	269	3.46
LINK_718	463	8	74.0	1.12	0.44	236	3.45
LINK_719	324	8	141.0	1.39	0.62	243	3.41
LINK_720	200	8	146.0	1.82	0.51	354	3.41
LINK_721	331	8	10.0	0.75	0.16	282	3.49
LINK_722	353	8	21.0	0.73	0.26	209	3.49
LINK_723	336	8	28.0	0.77	0.28	208	3.48
LINK_724	402	8	42.0	0.92	0.32	230	3.47
LINK_725	328	8	11.0	0.63	0.18	218	3.49
LINK_726	355	8	22.0	0.85	0.24	253	3.49
LINK_727	334	8	29.0	0.93	0.26	263	3.48
LINK_728	410	8	44.0	0.87	0.35	206	3.47
LINK_729	411	8	14.0	0.44	0.27	123	3.49
LINK_730	629	8	20.0	0.76	0.24	225	3.49
LINK_731	388	8	32.0	1.02	0.26	287	3.48
LINK_732	418	8	40.0	1.05	0.29	280	3.47
LINK_733	429	8	60.0	1.08	0.38	246	3.46
LINK_734	451	8	69.0	1.20	0.40	267	3.46
LINK_735	326	8	79.0	1.37	0.40	303	3.45





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 16

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_736	506	8	11.0	0.80	0.16	296	3.49
LINK_737	461	8	17.0	0.82	0.21	264	3.49
LINK_738	471	8	21.0	0.92	0.22	289	3.49
LINK_739	492	8	31.0	0.96	0.27	271	3.48
LINK_740	406	8	46.0	1.08	0.31	276	3.47
LINK_741	294	8	54.0	1.20	0.32	301	3.47
LINK_742	527	8	17.0	0.83	0.21	270	3.49
LINK_743	473	8	27.0	0.93	0.25	268	3.48
LINK_744	453	8	33.0	1.00	0.27	276	3.48
LINK_745	432	8	51.0	1.19	0.31	304	3.47
LINK_746	457	8	65.0	1.22	0.37	282	3.46
LINK_747	306	8	74.0	1.42	0.36	333	3.45
LINK_748	188	8	15.0	0.81	0.19	275	3.49
LINK_749	256	8	15.0	0.73	0.20	240	3.49
LINK_750	199	8	24.0	0.86	0.25	250	3.49
LINK_751	369	8	37.0	0.92	0.30	242	3.48
LINK_752	303	8	47.0	0.78	0.41	171	3.47
LINK_753	252	8	58.0	0.99	0.40	217	3.46
LINK_754	287	8	66.0	1.33	0.35	319	3.46
LINK_755	114	8	69.0	0.97	0.46	197	3.46
LINK_756	175	8	77.0	1.77	0.31	450	3.45
LINK_757	206	8	81.0	0.96	0.53	182	3.45
LINK_758	300	8	92.0	1.48	0.42	320	3.44
LINK_759	203	8	12.0	0.77	0.17	280	3.49
LINK_760	324	8	23.0	0.67	0.28	184	3.49
LINK_761	227	8	35.0	1.00	0.28	272	3.48
LINK_762	262	8	39.0	0.81	0.34	196	3.48
LINK_763	276	8	46.0	1.95	0.22	603	3.47
LINK_764	429	8	23.0	0.87	0.24	257	3.49
LINK_765	536	8	35.0	0.80	0.31	203	3.48
LINK_766	323	8	43.0	1.82	0.23	558	3.47
LINK_767	324	8	60.0	1.66	0.28	447	3.46
LINK_768	310	8	60.0	1.25	0.34	304	3.46
LINK_769	654	8	78.0	1.12	0.45	233	3.45
LINK_770	685	8	95.0	2.21	0.31	563	3.44
LINK_771	330	8	103.0	1.59	0.43	338	3.43
LINK_772	324	8	111.0	1.49	0.48	299	3.43
LINK_773	272	8	13.0	1.07	0.15	412	3.49
LINK_774	356	8	19.0	0.88	0.21	284	3.49
LINK_775	656	8	37.0	0.92	0.30	238	3.48
LINK_776	695	8	56.0	0.93	0.41	204	3.46
LINK_777	338	8	66.0	1.33	0.35	318	3.46
LINK_778	309	8	74.0	1.15	0.43	243	3.45
LINK_779	634	8	19.0	0.77	0.23	236	3.49
LINK_780	314	8	30.0	1.05	0.25	302	3.48
LINK_781	352	8	37.0	0.99	0.29	266	3.48
LINK_782	701	8	56.0	1.02	0.38	232	3.46
LINK_783	316	8	67.0	1.25	0.37	292	3.46
LINK_784	321	8	74.0	1.52	0.34	368	3.45





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 17

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_785	627	8	20.0	0.88	0.22	275	3.49
LINK_786	319	8	32.0	1.11	0.26	318	3.48
LINK_787	369	8	40.0	0.99	0.30	258	3.47
LINK_788	683	8	60.0	0.92	0.43	195	3.46
LINK_789	336	8	71.0	1.26	0.39	284	3.45
LINK_790	303	8	79.0	1.33	0.40	291	3.45
LINK_791	355	8	76.0	1.40	0.38	319	3.45
LINK_792	577	8	19.0	0.84	0.22	262	3.49
LINK_793	648	8	38.0	0.84	0.33	209	3.48
LINK_794	439	8	58.0	1.19	0.34	288	3.46
LINK_795	552	8	67.0	1.08	0.42	234	3.46
LINK_796	217	8	11.0	0.84	0.16	313	3.49
LINK_797	370	8	19.0	0.74	0.24	221	3.49
LINK_798	660	8	38.0	0.87	0.31	223	3.48
LINK_799	386	8	49.0	1.21	0.30	317	3.47
LINK_800	591	8	56.0	0.98	0.40	217	3.46
LINK_801	370	8	75.0	1.69	0.32	428	3.45
LINK_802	452	8	18.0	0.90	0.20	293	3.49
LINK_803	527	8	31.0	1.00	0.26	282	3.48
LINK_804	611	8	43.0	1.02	0.31	263	3.47
LINK_805	345	8	54.0	1.36	0.30	358	3.47
LINK_806	229	8	169.0	1.59	0.65	271	3.36
LINK_807	225	8	9.0	0.80	0.15	312	3.49
LINK_808	498	8	16.0	0.91	0.19	312	3.49
LINK_809	305	8	9.0	0.73	0.15	284	3.49
LINK_810	292	8	14.0	0.81	0.18	283	3.49
LINK_811	351	8	11.0	0.82	0.16	307	3.49
LINK_812	272	8	18.0	0.93	0.20	304	3.49
LINK_813	237	8	8.0	0.78	0.14	320	3.50
LINK_814	286	8	13.0	0.80	0.18	282	3.49
LINK_815	311	8	15.0	0.79	0.20	262	3.49
LINK_816	295	8	23.0	0.95	0.23	290	3.49
LINK_817	296	8	43.0	1.04	0.31	268	3.47
LINK_818	314	8	61.0	1.20	0.35	286	3.46
LINK_819	192	8	94.0	1.62	0.40	357	3.44
LINK_820	294	8	10.0	0.71	0.16	263	3.49
LINK_821	331	8	19.0	0.77	0.23	237	3.49
LINK_822	271	8	11.0	0.70	0.17	254	3.49
LINK_823	342	8	19.0	0.77	0.23	233	3.49
LINK_824	199	8	38.0	0.96	0.30	253	3.48
LINK_825	127	8	4.0	0.44	0.12	199	3.50
LINK_826	323	8	8.0	0.45	0.18	157	3.50
LINK_827	180	8	10.0	0.66	0.17	236	3.49
LINK_828	158	8	51.0	0.87	0.40	193	3.47
LINK_829	250	8	54.0	1.14	0.34	277	3.47
LINK_830	275	8	58.0	0.95	0.41	205	3.46
LINK_831	514	8	64.0	1.14	0.39	257	3.46
LINK_832	150	8	68.0	1.22	0.38	277	3.46
LINK_833	319	8	162.0	1.40	0.70	232	3.38



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 18

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_834	118	8	165.0	1.21	0.81	187	3.37
LINK_835	459	8	13.0	0.84	0.17	308	3.49
LINK_836	264	8	21.0	1.13	0.19	381	3.49
LINK_837	313	8	29.0	1.16	0.24	348	3.48
LINK_838	241	8	35.0	1.33	0.24	396	3.48
LINK_839	445	8	13.0	0.79	0.18	281	3.49
LINK_840	540	8	27.0	1.10	0.23	337	3.48
LINK_841	294	8	35.0	1.06	0.27	292	3.48
LINK_842	434	8	12.0	0.70	0.19	241	3.49
LINK_843	327	8	24.0	0.91	0.24	271	3.49
LINK_844	286	8	32.0	0.96	0.27	267	3.48
LINK_845	232	8	36.0	1.09	0.27	303	3.48
LINK_846	296	8	36.0	1.00	0.28	272	3.48
LINK_847	332	8	71.0	1.11	0.43	237	3.45
LINK_848	701	8	105.0	1.59	0.43	335	3.43
LINK_849	420	8	107.0	1.26	0.53	239	3.43
LINK_850	220	8	126.0	1.44	0.54	269	3.42
LINK_851	131	8	53.0	1.15	0.33	285	3.47
LINK_852	556	8	36.0	0.82	0.32	207	3.48
LINK_853	278	8	57.0	0.89	0.43	190	3.46
LINK_854	219	8	57.0	1.20	0.34	294	3.46
LINK_855	551	8	7.0	0.20	0.00	0	3.50
LINK_856	309	8	12.0	0.75	0.18	264	3.49
LINK_857	64	8	69.0	0.59	0.71	96	3.46
LINK_858	72	8	69.0	2.11	0.27	587	3.46
LINK_859	334	8	9.0	0.72	0.15	277	3.49
LINK_860	552	8	28.0	1.60	0.18	554	3.48
LINK_861	284	8	11.0	0.99	0.14	396	3.49
LINK_862	381	8	25.0	0.79	0.27	223	3.48
LINK_863	503	8	21.0	0.78	0.25	226	3.49
LINK_864	49	8	21.0	3.11	0.10	1522	3.49
LINK_865	429	8	8.0	1.07	0.11	500	3.50
LINK_866	180	8	14.0	0.90	0.17	319	3.49
LINK_867	190	8	14.0	1.10	0.16	417	3.49
LINK_868	308	8	7.0	0.69	0.13	294	3.50
LINK_869	287	8	17.0	0.81	0.21	263	3.49
LINK_870	117	8	17.0	0.76	0.21	241	3.49
LINK_871	351	8	24.0	0.92	0.24	272	3.49
LINK_872	269	8	34.0	1.71	0.20	560	3.48
LINK_873	528	8	14.0	0.81	0.18	283	3.49
LINK_874	175	8	16.0	0.73	0.21	232	3.49
LINK_875	253	8	23.0	0.97	0.22	298	3.49
LINK_876	360	8	32.0	1.57	0.21	509	3.48
LINK_877	64	8	5.0	0.56	0.12	245	3.50
LINK_878	343	8	13.0	1.23	0.13	511	3.49
LINK_879	182	8	13.0	0.20	0.00	0	3.49
LINK_880	267	8	17.0	0.98	0.18	339	3.49
LINK_881	342	8	22.0	1.49	0.17	543	3.49
LINK_882	448	8	21.0	0.87	0.22	269	3.49



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 19

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_883	485	8	33.0	0.91	0.28	247	3.48
LINK_884	237	8	38.0	0.86	0.32	218	3.48
LINK_885	274	8	38.0	1.23	0.26	346	3.48
LINK_886	199	8	50.0	1.17	0.31	298	3.47
LINK_887	299	8	86.0	1.31	0.43	276	3.44
LINK_888	344	8	92.0	1.67	0.38	382	3.44
LINK_889	266	8	41.0	1.19	0.28	325	3.47
LINK_890	441	8	64.0	1.04	0.42	224	3.46
LINK_891	70	8	154.0	1.72	0.55	318	3.40
LINK_892	324	8	157.0	1.40	0.68	234	3.39
LINK_893	286	8	166.0	1.43	0.70	236	3.37
LINK_894	333	8	21.0	0.80	0.24	240	3.49
LINK_895	179	8	35.0	1.21	0.25	347	3.48
LINK_896	254	8	74.0	1.53	0.34	372	3.45
LINK_897	468	8	74.0	1.51	0.35	363	3.45
LINK_898	325	8	15.0	1.25	0.15	492	3.49
LINK_899	286	8	29.0	1.32	0.22	417	3.48
LINK_900	407	6	13.0	0.65	0.28	101	3.49
LINK_901	450	8	7.0	0.63	0.15	246	3.50
LINK_902	446	8	16.0	0.67	0.23	204	3.49
LINK_903	574	8	32.0	0.94	0.28	259	3.48
LINK_904	208	6	5.0	0.73	0.15	156	3.50
LINK_905	332	8	7.0	0.71	0.13	292	3.50
LINK_906	493	8	27.0	0.80	0.27	222	3.48
LINK_907	456	8	49.0	0.97	0.35	233	3.47
LINK_908	477	8	56.0	1.14	0.35	276	3.46
LINK_909	346	8	8.0	1.18	0.10	583	3.50
LINK_910	193	8	331.0	2.11	1.00	55	3.06
LINK_911	201	8	348.0	2.22	1.00	307	3.05
LINK_912	369	8	393.0	2.51	1.00	251	3.01
LINK_913	189	8	416.0	2.66	1.00	177	2.99
LINK_914	159	8	473.0	3.02	1.00	299	2.94
LINK_915	126	8	0.0	0.20	0.00	256	3.50
LINK_916	184	8	4.0	0.54	0.11	257	3.50
LINK_917	482	8	16.0	0.76	0.21	245	3.49
LINK_918	467	8	28.0	0.87	0.27	241	3.48
LINK_919	564	8	46.0	0.89	0.36	207	3.47
LINK_920	221	8	10.0	0.76	0.15	288	3.49
LINK_921	351	8	9.0	0.66	0.16	251	3.49
LINK_922	533	8	23.0	0.82	0.25	237	3.49
LINK_923	623	8	42.0	0.94	0.32	236	3.47
LINK_924	327	8	33.0	1.05	0.26	296	3.48
LINK_925	298	8	62.0	1.32	0.33	326	3.46
LINK_926	383	8	13.0	0.55	0.23	169	3.49
LINK_927	675	8	32.0	0.63	0.35	151	3.48
LINK_928	448	8	71.0	0.83	0.53	156	3.45
LINK_929	459	8	84.0	1.00	0.53	190	3.45
LINK_930	316	8	9.0	0.75	0.15	295	3.49
LINK_931	315	8	20.0	0.60	0.27	168	3.49





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 20

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_932	211	8	105.0	1.41	0.48	282	3.43
LINK_933	227	8	110.0	1.20	0.57	219	3.43
LINK_934	360	8	168.0	1.34	0.75	214	3.37
LINK_935	376	8	177.0	1.48	0.72	241	3.35
LINK_936	366	8	222.0	1.42	1.00	203	3.24
LINK_937	376	8	272.0	1.74	1.00	221	3.12
LINK_938	538	8	13.0	1.08	0.15	425	3.49
LINK_939	573	8	25.0	1.40	0.19	479	3.48
LINK_940	206	8	151.0	1.62	0.57	293	3.40
LINK_941	227	15	151.0	1.07	0.30	983	3.40
LINK_942	227	8	8.0	1.54	0.08	889	3.50
LINK_943	406	8	7.0	0.63	0.14	256	3.50
LINK_944	305	8	10.0	0.75	0.16	278	3.49
LINK_945	330	8	24.0	0.92	0.24	274	3.49
LINK_946	243	8	31.0	2.41	0.16	916	3.48
LINK_947	345	8	14.0	0.86	0.18	301	3.49
LINK_948	306	8	22.0	2.19	0.13	912	3.49
LINK_949	262	8	0.0	0.20	0.00	329	3.50
LINK_950	154	8	0.0	0.20	0.00	399	3.50
LINK_951	409	8	9.0	0.60	0.16	223	3.50
LINK_952	182	8	63.0	1.11	0.39	248	3.46
LINK_953	451	8	123.0	1.50	0.52	288	3.42
LINK_954	472	8	179.0	1.71	0.64	295	3.34
LINK_955	443	8	196.0	1.86	0.64	319	3.30
LINK_956	222	8	210.0	1.85	0.69	307	3.27
LINK_957	313	8	221.0	1.41	1.00	219	3.25
LINK_958	344	8	225.0	1.99	0.68	332	3.24
LINK_959	250	8	5.0	1.03	0.08	591	3.50
LINK_960	267	8	5.0	1.04	0.08	598	3.50
LINK_961	69	8	11.0	0.20	0.00	0	3.49
LINK_962	357	8	14.0	0.74	0.19	247	3.49
LINK_963	354	8	21.0	0.84	0.23	255	3.49
LINK_964	257	8	26.0	0.44	0.40	96	3.48
LINK_965	318	8	41.0	2.33	0.19	798	3.47
LINK_966	398	10	69.0	1.35	0.27	587	3.46
LINK_967	453	10	69.0	1.33	0.27	576	3.46
LINK_968	436	10	69.0	1.36	0.27	595	3.46
LINK_969	473	10	69.0	1.41	0.26	623	3.46
LINK_970	445	8	0.0	0.20	0.00	217	3.50
LINK_971	578	8	0.0	0.20	0.00	474	3.50
LINK_972	376	8	12.0	0.79	0.17	284	3.49
LINK_973	416	8	31.0	0.89	0.28	241	3.48
LINK_974	379	8	49.0	1.23	0.30	323	3.47
LINK_975	293	8	49.0	1.14	0.31	293	3.47
LINK_976	469	8	70.0	2.07	0.27	571	3.46
LINK_977	415	8	11.0	0.70	0.17	253	3.49
LINK_978	458	8	27.0	0.91	0.26	260	3.48
LINK_979	469	8	42.0	1.03	0.30	268	3.47
LINK_980	590	8	62.0	1.88	0.27	521	3.46



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 21

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_981	192	8	5.0	0.74	0.11	355	3.50
LINK_982	312	8	19.0	0.83	0.22	259	3.49
LINK_983	394	8	26.0	1.12	0.22	346	3.48
LINK_984	466	8	40.0	0.84	0.34	205	3.47
LINK_985	576	8	61.0	1.92	0.27	540	3.46
LINK_986	483	8	19.0	0.94	0.20	307	3.49
LINK_987	403	8	26.0	0.96	0.25	280	3.48
LINK_988	467	8	40.0	1.03	0.29	273	3.47
LINK_989	586	8	61.0	1.99	0.26	563	3.46
LINK_990	487	8	19.0	0.90	0.21	288	3.49
LINK_991	407	8	28.0	0.97	0.26	277	3.48
LINK_992	449	8	40.0	1.01	0.30	264	3.47
LINK_993	592	8	61.0	1.97	0.26	558	3.46
LINK_994	334	8	27.0	0.62	0.32	157	3.48
LINK_995	398	8	38.0	1.04	0.28	280	3.48
LINK_996	472	8	55.0	1.11	0.35	267	3.47
LINK_997	582	8	75.0	1.15	0.43	244	3.45
LINK_998	536	8	77.0	1.22	0.42	260	3.45
LINK_999	271	8	5.0	0.92	0.09	493	3.50
LINK_1000	252	8	5.0	0.96	0.09	532	3.50
LINK_1001	66	8	11.0	1.73	0.10	895	3.49
LINK_1002	332	8	108.0	1.18	0.56	217	3.43
LINK_1003	366	8	117.0	1.22	0.59	218	3.42
LINK_1004	506	8	134.0	1.27	0.64	217	3.41
LINK_1005	110	8	134.0	2.50	0.37	577	3.41
LINK_1006	304	8	139.0	0.20	0.00	0	3.41
LINK_1007	318	8	154.0	3.01	0.36	712	3.40
LINK_1008	194	8	0.0	0.20	0.00	244	3.50
LINK_1009	372	8	8.0	0.72	0.14	286	3.50
LINK_1010	465	8	8.0	0.62	0.16	231	3.50
LINK_1011	257	8	2.0	0.59	0.04	677	3.50
LINK_1012	315	8	11.0	1.12	0.13	474	3.49
LINK_1013	314	8	19.0	0.94	0.20	307	3.49
LINK_1014	391	8	31.0	0.98	0.27	273	3.48
LINK_1015	276	8	38.0	0.99	0.29	262	3.48
LINK_1016	329	8	52.0	1.16	0.32	292	3.47
LINK_1017	325	8	58.0	1.44	0.30	375	3.46
LINK_1018	619	8	75.0	1.36	0.38	308	3.45
LINK_1019	281	8	12.0	0.94	0.16	355	3.49
LINK_1020	354	8	20.0	1.01	0.20	331	3.49
LINK_1021	668	8	41.0	0.97	0.31	249	3.47
LINK_1022	387	8	54.0	1.58	0.28	432	3.47
LINK_1023	266	8	61.0	0.98	0.42	211	3.46
LINK_1024	499	8	77.0	1.36	0.39	305	3.45
LINK_1025	363	8	172.0	1.39	0.74	223	3.36
LINK_1026	455	8	173.0	1.21	0.85	185	3.36
LINK_1027	338	8	31.0	1.12	0.25	327	3.48
LINK_1028	321	8	31.0	1.14	0.25	332	3.48
LINK_1029	288	8	51.0	1.20	0.31	306	3.47



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 22

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1030	237	8	62.0	1.04	0.41	226	3.46
LINK_1031	168	8	225.0	1.71	0.78	268	3.24
LINK_1032	330	8	250.0	1.76	0.84	269	3.18
LINK_1033	313	8	262.0	2.48	0.64	427	3.14
LINK_1034	299	8	8.0	0.92	0.12	409	3.50
LINK_1035	442	8	33.0	1.10	0.26	313	3.48
LINK_1036	379	8	52.0	1.12	0.33	279	3.47
LINK_1037	339	8	66.0	1.15	0.39	256	3.46
LINK_1038	170	8	66.0	1.25	0.37	292	3.46
LINK_1039	609	8	84.0	1.07	0.50	210	3.45
LINK_1040	358	8	95.0	1.35	0.46	279	3.44
LINK_1041	320	8	103.0	1.49	0.45	308	3.43
LINK_1042	421	8	45.0	1.06	0.31	270	3.47
LINK_1043	418	8	81.0	1.20	0.45	249	3.45
LINK_1044	315	8	103.0	1.24	0.52	237	3.43
LINK_1045	222	8	103.0	1.51	0.45	314	3.43
LINK_1046	607	8	143.0	1.13	0.76	179	3.41
LINK_1047	371	8	167.0	1.49	0.67	251	3.37
LINK_1048	312	8	183.0	1.77	0.63	306	3.33
LINK_1049	381	8	183.0	1.47	0.75	235	3.33
LINK_1050	337	12	261.0	1.55	0.48	698	3.15
LINK_1051	220	6	2.0	0.48	0.12	120	3.50
LINK_1052	425	6	7.0	0.71	0.18	138	3.50
LINK_1053	415	6	27.0	1.08	0.32	152	3.48
LINK_1054	400	6	37.0	1.30	0.35	174	3.48
LINK_1055	346	6	50.0	1.09	0.52	117	3.47
LINK_1056	80	6	57.0	1.40	0.47	160	3.46
LINK_1057	103	6	57.0	1.41	0.47	161	3.46
LINK_1058	553	6	0.0	0.20	0.00	101	3.50
LINK_1059	480	6	0.0	0.20	0.00	101	3.50
LINK_1060	508	8	76.0	1.13	0.44	237	3.45
LINK_1061	395	8	86.0	1.27	0.44	265	3.45
LINK_1062	369	8	95.0	1.31	0.47	265	3.44
LINK_1063	470	8	107.0	1.37	0.50	268	3.43
LINK_1064	249	8	126.0	1.20	0.64	207	3.42
LINK_1065	204	8	126.0	1.06	0.71	174	3.42
LINK_1066	88	8	126.0	1.21	0.63	209	3.42
LINK_1067	100	8	126.0	1.88	0.44	396	3.42
LINK_1068	322	10	211.0	1.71	0.50	521	3.27
LINK_1069	336	8	63.0	1.05	0.41	230	3.46
LINK_1070	334	8	54.0	1.16	0.33	288	3.47
LINK_1071	612	8	44.0	0.91	0.34	223	3.47
LINK_1072	167	8	26.0	1.04	0.23	318	3.48
LINK_1073	409	8	26.0	0.79	0.27	220	3.48
LINK_1074	406	8	20.0	0.82	0.23	252	3.49
LINK_1075	420	8	16.0	0.76	0.21	245	3.49
LINK_1076	277	8	5.0	0.54	0.12	244	3.50
LINK_1077	287	8	2.0	0.27	0.09	143	3.50
LINK_1078	413	8	90.0	1.31	0.45	271	3.44





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
 PAGE 23

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1079	179	8	77.0	0.20	0.00	0	3.45
LINK_1080	250	8	63.0	1.22	0.36	288	3.46
LINK_1081	185	8	59.0	0.86	0.45	179	3.46
LINK_1082	307	8	57.0	1.16	0.34	281	3.46
LINK_1083	224	8	53.0	1.15	0.33	288	3.47
LINK_1084	334	8	44.0	1.03	0.31	263	3.47
LINK_1085	278	8	44.0	1.08	0.30	280	3.47
LINK_1086	199	8	26.0	0.90	0.25	258	3.48
LINK_1087	201	8	32.0	0.80	0.30	210	3.48
LINK_1088	64	8	0.0	0.20	0.00	372	3.50
LINK_1089	485	8	293.0	1.87	1.00	230	3.09
LINK_1090	534	8	336.0	2.15	1.00	212	3.06
LINK_1091	224	8	336.0	2.15	1.00	244	3.06
LINK_1092	262	8	336.0	2.15	1.00	196	3.06
LINK_1093	90	8	336.0	3.51	0.59	630	3.06
LINK_1094	125	8	336.0	2.15	1.00	248	3.06
LINK_1095	314	8	9.0	0.74	0.15	286	3.49
LINK_1096	261	8	15.0	0.94	0.17	336	3.49
LINK_1097	375	8	33.0	1.01	0.27	282	3.48
LINK_1098	259	8	39.0	1.19	0.27	331	3.48
LINK_1099	259	8	44.0	1.14	0.29	302	3.47
LINK_1100	277	8	61.0	1.25	0.34	301	3.46
LINK_1101	167	8	4.0	0.94	0.08	580	3.50
LINK_1102	453	8	15.0	1.02	0.17	373	3.49
LINK_1103	208	8	7.0	1.02	0.10	501	3.50
LINK_1104	401	8	15.0	0.92	0.18	322	3.49
LINK_1105	213	8	29.0	1.16	0.23	353	3.48
LINK_1106	378	8	22.0	0.91	0.23	281	3.49
LINK_1107	352	8	14.0	0.85	0.17	304	3.49
LINK_1108	327	8	8.0	0.74	0.13	309	3.50
LINK_1109	271	8	7.0	0.74	0.13	310	3.50
LINK_1110	259	8	4.0	0.62	0.10	313	3.50
LINK_1111	361	8	13.0	0.85	0.17	308	3.49
LINK_1112	312	8	16.0	0.93	0.19	317	3.49
LINK_1113	349	8	27.0	1.15	0.22	358	3.48
LINK_1114	217	8	31.0	1.32	0.23	406	3.48
LINK_1115	272	12	373.0	1.56	0.65	599	3.03
LINK_1116	287	12	408.0	1.98	0.57	814	3.00
LINK_1117	296	12	557.0	2.44	0.62	959	2.89
LINK_1118	339	12	551.0	1.91	0.77	680	2.89
LINK_1119	230	8	120.0	1.67	0.46	342	3.42
LINK_1120	359	8	113.0	1.51	0.48	301	3.43
LINK_1121	268	8	105.0	1.56	0.44	327	3.43
LINK_1122	385	8	103.0	1.30	0.50	254	3.43
LINK_1123	302	8	9.0	0.64	0.16	240	3.49
LINK_1124	278	8	11.0	0.69	0.18	244	3.49
LINK_1125	305	8	20.0	0.81	0.23	247	3.49
LINK_1126	277	8	20.0	0.81	0.23	249	3.49
LINK_1127	42	8	20.0	1.10	0.19	375	3.49





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 24

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1128	36	8	28.0	1.28	0.21	405	3.48
LINK_1129	286	8	21.0	0.82	0.24	245	3.49
LINK_1130	537	8	21.0	0.79	0.24	233	3.49
LINK_1131	261	8	9.0	0.65	0.16	243	3.49
LINK_1132	503	8	10.0	0.64	0.18	227	3.49
LINK_1133	164	8	13.0	0.73	0.18	255	3.49
LINK_1134	95	8	13.0	0.95	0.16	357	3.49
LINK_1135	665	14	506.0	1.65	0.61	884	2.91
LINK_1136	438	14	520.0	1.91	0.55	1090	2.90
LINK_1137	545	14	523.0	1.62	0.64	854	2.90
LINK_1138	335	14	528.0	1.96	0.55	1121	2.90
LINK_1139	162	14	534.0	2.22	0.50	1330	2.89
LINK_1140	302	14	751.0	1.57	1.00	311	2.80
LINK_1141	248	14	751.0	2.14	0.69	1086	2.80
LINK_1142	40	8	178.0	2.39	0.48	478	3.34
LINK_1143	33	8	334.0	2.13	1.00	328	3.06
LINK_1144	424	8	39.0	0.86	0.32	216	3.48
LINK_1145	219	8	77.0	1.40	0.38	318	3.45
LINK_1146	334	8	77.0	1.11	0.45	230	3.45
LINK_1147	144	8	77.0	1.00	0.49	197	3.45
LINK_1148	329	8	3.0	0.50	0.10	243	3.50
LINK_1149	340	8	7.0	0.62	0.15	239	3.50
LINK_1150	170	8	4.0	0.73	0.09	406	3.50
LINK_1151	377	12	92.0	0.92	0.32	522	3.44
LINK_1152	362	12	100.0	0.96	0.33	533	3.44
LINK_1153	323	8	8.0	0.91	0.12	406	3.50
LINK_1154	378	8	5.0	0.75	0.10	364	3.50
LINK_1155	408	8	9.0	0.59	0.17	215	3.49
LINK_1156	417	8	21.0	0.95	0.21	301	3.49
LINK_1157	178	12	334.0	1.71	0.54	721	3.06
LINK_1158	606	12	334.0	1.69	0.54	713	3.06
LINK_1159	256	12	262.0	2.01	0.40	1002	3.14
LINK_1160	242	12	225.0	1.55	0.43	743	3.24
LINK_1161	270	12	192.0	1.44	0.40	710	3.31
LINK_1162	279	12	165.0	1.38	0.37	718	3.37
LINK_1163	240	8	61.0	1.29	0.33	318	3.46
LINK_1164	354	8	10.0	0.68	0.16	252	3.49
LINK_1165	474	8	18.0	0.67	0.25	197	3.49
LINK_1166	351	12	85.0	1.06	0.28	646	3.45
LINK_1167	417	12	97.0	1.09	0.30	642	3.44
LINK_1168	467	12	119.0	1.15	0.33	638	3.42
LINK_1169	344	12	132.0	1.31	0.32	738	3.41
LINK_1170	365	12	136.0	1.18	0.36	628	3.41
LINK_1171	232	8	11.0	0.68	0.17	245	3.49
LINK_1172	393	8	25.0	0.83	0.26	236	3.48
LINK_1173	305	8	65.0	1.12	0.40	249	3.46
LINK_1174	302	8	65.0	1.10	0.40	242	3.46
LINK_1175	330	8	41.0	1.41	0.26	403	3.47
LINK_1176	330	8	33.0	0.93	0.28	254	3.48



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 25

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1177	386	8	52.0	1.00	0.36	235	3.47
LINK_1178	646	12	340.0	1.76	0.54	749	3.05
LINK_1179	183	12	1435.0	4.07	1.00	795	2.66
LINK_1180	245	12	1435.0	4.07	1.00	993	2.66
LINK_1181	433	12	1347.0	3.82	1.00	905	2.68
LINK_1182	894	12	1320.0	3.74	1.00	881	2.68
LINK_1183	323	12	1024.0	2.91	1.00	735	2.74
LINK_1184	257	12	1024.0	2.91	1.00	793	2.74
LINK_1185	318	12	424.0	1.93	0.60	768	2.98
LINK_1186	311	12	424.0	1.81	0.63	704	2.98
LINK_1187	314	12	424.0	1.85	0.62	724	2.98
LINK_1188	267	12	424.0	2.72	0.45	1264	2.98
LINK_1189	354	8	0.0	0.20	0.00	578	3.50
LINK_1190	262	8	231.0	1.79	0.77	283	3.22
LINK_1191	323	8	231.0	1.64	0.84	251	3.22
LINK_1192	383	12	231.0	1.60	0.43	768	3.22
LINK_1193	382	12	231.0	1.63	0.42	787	3.22
LINK_1194	346	12	231.0	1.71	0.41	840	3.22
LINK_1195	86	8	231.0	2.15	0.65	366	3.22
LINK_1196	380	12	278.0	1.12	0.66	427	3.10
LINK_1197	316	12	278.0	1.41	0.55	591	3.10
LINK_1198	341	12	278.0	1.40	0.55	589	3.10
LINK_1199	336	12	278.0	1.37	0.56	567	3.10
LINK_1200	347	12	278.0	1.22	0.62	479	3.10
LINK_1201	345	12	278.0	1.41	0.55	592	3.10
LINK_1202	379	12	278.0	1.34	0.57	552	3.10
LINK_1203	389	6	0.0	0.20	0.00	114	3.50
LINK_1204	555	6	0.0	0.20	0.00	113	3.50
LINK_1205	637	6	10.0	0.68	0.24	113	3.49
LINK_1206	589	6	10.0	0.68	0.24	112	3.49
LINK_1207	523	6	10.0	0.68	0.24	113	3.49
LINK_1208	149	8	10.0	0.70	0.17	256	3.49
LINK_1209	333	8	10.0	0.67	0.17	244	3.49
LINK_1210	411	8	10.0	0.67	0.17	243	3.49
LINK_1211	311	8	10.0	0.67	0.17	243	3.49
LINK_1212	338	8	10.0	0.67	0.17	244	3.49
LINK_1213	415	8	10.0	0.67	0.17	243	3.49
LINK_1214	171	6	23.0	0.83	0.34	113	3.49
LINK_1215	520	6	38.0	0.61	0.67	58	3.48
LINK_1216	523	6	38.0	0.92	0.48	104	3.48
LINK_1217	447	6	38.0	1.00	0.45	117	3.48
LINK_1218	222	6	38.0	0.60	0.68	56	3.48
LINK_1219	599	8	38.0	0.84	0.32	211	3.48
LINK_1220	387	8	38.0	0.82	0.33	203	3.48
LINK_1221	316	8	38.0	0.79	0.34	193	3.48
LINK_1222	225	8	38.0	1.28	0.26	364	3.48
LINK_1223	422	8	49.0	0.95	0.36	223	3.47
LINK_1224	449	8	49.0	0.76	0.43	162	3.47
LINK_1225	202	8	124.0	1.49	0.53	284	3.42



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 26

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1226	361	8	124.0	1.39	0.55	257	3.42
LINK_1227	377	8	136.0	0.87	1.00	105	3.41
LINK_1228	492	8	151.0	1.36	0.67	229	3.40
LINK_1229	230	10	53.0	1.05	0.27	455	3.47
LINK_1230	434	10	62.0	0.79	0.35	292	3.46
LINK_1231	471	10	62.0	0.93	0.31	372	3.46
LINK_1232	56	15	1613.0	2.93	1.00	388	2.63
LINK_1233	156	15	1613.0	2.93	1.00	901	2.63
LINK_1234	198	15	1607.0	2.92	1.00	990	2.63
LINK_1235	154	15	1576.0	2.86	1.00	994	2.63
LINK_1236	199	15	1561.0	2.83	1.00	1366	2.64
LINK_1237	188	15	1534.0	2.79	1.00	994	2.64
LINK_1238	167	15	1474.0	2.68	1.00	927	2.65
LINK_1239	206	15	1438.0	2.61	1.00	1163	2.66
LINK_1240	195	15	1387.0	2.52	1.00	998	2.67
LINK_1241	365	15	1331.0	2.42	1.00	997	2.68
LINK_1242	354	15	1273.0	2.31	1.00	977	2.69
LINK_1243	358	15	1194.0	2.17	1.00	1139	2.70
LINK_1244	361	15	1016.0	1.84	1.00	991	2.74
LINK_1245	222	15	971.0	2.41	0.69	1406	2.75
LINK_1246	144	15	923.0	2.57	0.62	1569	2.76
LINK_1247	242	15	914.0	1.66	1.00	699	2.77
LINK_1248	107	15	869.0	1.90	0.78	1051	2.78
LINK_1249	289	15	851.0	1.89	0.76	1054	2.78
LINK_1250	104	15	851.0	2.24	0.65	1337	2.78
LINK_1251	4831	24	8749.0	6.21	0.00	0	2.08
LINK_1252	0	**	8912.0	0.00	0.00	0	2.07
LINK_1253	135	8	4.0	0.51	0.11	239	3.50
LINK_1254	410	8	12.0	0.69	0.18	242	3.49
LINK_1255	300	8	5.0	0.55	0.12	241	3.50
LINK_1256	305	8	12.0	0.70	0.19	241	3.49
LINK_1257	255	8	2.0	0.40	0.09	218	3.50
LINK_1258	120	8	3.0	0.42	0.11	198	3.50
LINK_1259	315	8	8.0	0.55	0.16	205	3.50
LINK_1260	269	8	15.0	0.70	0.21	225	3.49
LINK_1261	224	12	1439.0	4.08	1.00	442	2.66
LINK_1262	49	12	65.0	4.38	0.10	4878	3.46
LINK_1263	138	27	8888.0	4.98	1.00	6388	2.07
LINK_1264	45	8	808.0	0.20	0.00	0	2.79
LINK_1265	45	8	52.0	4.42	0.15	1724	3.47
LINK_1266	0	0	217.0	0.00	0.00	0	3.26
LINK_1267	43	8	47.0	1.76	0.24	518	3.47
LINK_1268	43	8	40.0	2.65	0.17	963	3.47
LINK_1269	44	8	62.0	2.49	0.23	755	3.46
LINK_1270	43	8	52.0	2.86	0.19	974	3.47
LINK_1271	43	8	45.0	4.37	0.13	1825	3.47
LINK_1272	59	8	56.0	2.88	0.20	952	3.46
LINK_1273	62	8	50.0	2.78	0.19	944	3.47
LINK_1274	62	8	76.0	3.09	0.23	944	3.45





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 27

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1275	55	8	76.0	3.46	0.21	1097	3.45
LINK_1276	46	8	61.0	3.90	0.17	1400	3.46
LINK_1277	45	8	64.0	4.15	0.17	1496	3.46
LINK_1278	45	8	60.0	4.28	0.16	1594	3.46
LINK_1279	0	0	219.0	0.00	0.00	0	3.25
LINK_1280	0	0	190.0	0.00	0.00	0	3.32
LINK_1281	0	0	197.0	0.00	0.00	0	3.30
LINK_1282	0	0	239.0	0.00	0.00	0	3.20
LINK_1283	0	0	212.0	0.00	0.00	0	3.27
LINK_1284	0	0	256.0	0.00	0.00	0	3.16
LINK_1285	0	0	234.0	0.00	0.00	0	3.21
LINK_1286	0	0	235.0	0.00	0.00	0	3.21
LINK_1287	0	0	236.0	0.00	0.00	0	3.21
LINK_1288	0	0	194.0	0.00	0.00	0	3.31
LINK_1289	0	0	203.0	0.00	0.00	0	3.29
LINK_1290	0	0	190.0	0.00	0.00	0	3.32
LINK_1291	0	0	169.0	0.00	0.00	0	3.36
LINK_1292	0	0	278.0	0.00	0.00	0	3.10
LINK_1293	0	**	231.0	0.00	0.00	0	3.22
LINK_1294	430	4	244.0	6.24	0.00	0	3.19
LINK_1295	0	**	1139.0	0.00	0.00	0	2.72
LINK_1296	2886	8	820.0	5.24	0.00	0	2.79
LINK_1297	0	**	334.0	0.00	0.00	0	3.06
LINK_1298	259	4	408.0	10.42	0.00	0	3.00
LINK_1299	190	8	5.0	0.53	0.13	227	3.50
LINK_1300	305	8	14.0	0.66	0.21	211	3.49
LINK_1301	280	8	25.0	0.78	0.27	218	3.48
LINK_1302	150	12	28.0	0.75	0.18	600	3.48
LINK_1303	140	12	29.0	0.78	0.18	621	3.48
LINK_1304	260	12	47.0	0.91	0.22	644	3.47
LINK_1305	280	12	62.0	0.97	0.25	628	3.46
LINK_1306	325	12	79.0	1.05	0.27	653	3.45
LINK_1307	265	12	81.0	0.93	0.29	557	3.45
LINK_1308	420	8	0.0	0.20	0.00	317	3.50
LINK_1309	315	8	0.0	0.20	0.00	212	3.50
LINK_1310	355	8	0.0	0.20	0.00	309	3.50
LINK_1311	400	8	0.0	0.20	0.00	245	3.50
LINK_1312	423	8	0.0	0.20	0.00	205	3.50
LINK_1313	340	8	0.0	0.20	0.00	290	3.50
LINK_1314	538	6	0.0	0.20	0.00	98	3.50
LINK_1315	797	6	0.0	0.20	0.00	98	3.50
LINK_1316	1039	6	0.0	0.20	0.00	98	3.50
LINK_1317	1050	6	0.0	0.20	0.00	98	3.50
LINK_1318	649	6	0.0	0.20	0.00	113	3.50
LINK_1319	356	8	8.0	0.56	0.17	204	3.50
LINK_1320	328	8	16.0	0.69	0.22	214	3.49
LINK_1321	350	8	8.0	0.90	0.12	402	3.50
LINK_1322	332	8	16.0	0.69	0.22	215	3.49
LINK_1323	237	8	8.0	0.61	0.16	229	3.50



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 28

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1324	343	8	17.0	0.72	0.22	223	3.49
LINK_1325	340	8	26.0	0.80	0.27	223	3.48
LINK_1326	234	8	8.0	0.67	0.15	261	3.50
LINK_1327	350	8	16.0	0.76	0.21	245	3.49
LINK_1328	336	8	24.0	0.87	0.25	252	3.48
LINK_1329	303	12	16.0	0.68	0.14	624	3.49
LINK_1330	296	12	32.0	0.83	0.18	645	3.48
LINK_1331	296	12	58.0	0.96	0.25	632	3.46
LINK_1332	280	12	82.0	1.08	0.27	670	3.45
LINK_1333	325	12	8.0	0.62	0.09	775	3.50
LINK_1334	375	12	17.0	0.74	0.13	702	3.49
LINK_1335	349	12	25.0	0.86	0.16	728	3.48
LINK_1336	284	12	108.0	1.33	0.28	813	3.43
LINK_1337	339	12	130.0	1.21	0.34	669	3.42
LINK_1338	311	12	135.0	1.27	0.33	704	3.41
LINK_1339	229	12	135.0	1.96	0.26	1253	3.41
LINK_1340	300	8	7.0	0.66	0.14	261	3.50
LINK_1341	410	8	15.0	0.70	0.21	223	3.49
LINK_1342	300	8	7.0	0.65	0.15	255	3.50
LINK_1343	410	8	15.0	0.69	0.22	218	3.49
LINK_1344	300	8	8.0	0.65	0.15	255	3.50
LINK_1345	410	8	16.0	0.70	0.22	218	3.49
LINK_1346	282	12	0.0	0.20	0.00	721	3.50
LINK_1347	495	12	5.0	0.46	0.07	668	3.50
LINK_1348	194	12	8.0	0.57	0.10	630	3.50
LINK_1349	162	12	8.0	0.60	0.10	690	3.50
LINK_1350	169	12	32.0	0.74	0.20	551	3.48
LINK_1351	103	12	32.0	1.49	0.13	1439	3.48
LINK_1352	345	12	59.0	0.92	0.25	598	3.46
LINK_1353	410	12	74.0	1.15	0.25	742	3.45
LINK_1354	600	8	18.0	0.72	0.23	217	3.49
LINK_1355	268	8	24.0	0.77	0.26	218	3.49
LINK_1356	302	8	11.0	0.64	0.19	219	3.49
LINK_1357	301	8	16.0	0.87	0.19	294	3.49
LINK_1358	325	8	42.0	0.94	0.32	237	3.47
LINK_1359	282	8	8.0	0.58	0.16	215	3.50
LINK_1360	332	8	17.0	0.71	0.22	219	3.49
LINK_1361	332	8	27.0	0.79	0.28	217	3.48
LINK_1362	330	8	32.0	0.86	0.29	232	3.48
LINK_1363	280	8	9.0	0.59	0.16	218	3.50
LINK_1364	391	8	18.0	0.67	0.24	200	3.49
LINK_1365	272	8	29.0	0.87	0.27	240	3.48
LINK_1366	335	8	34.0	0.87	0.30	230	3.48
LINK_1367	455	8	5.0	0.51	0.13	218	3.50
LINK_1368	506	8	10.0	0.62	0.17	223	3.49
LINK_1369	320	8	16.0	0.69	0.22	215	3.49
LINK_1370	265	8	9.0	1.34	0.10	661	3.49
LINK_1371	200	8	59.0	1.09	0.37	249	3.46
LINK_1372	105	8	37.0	0.96	0.29	254	3.48



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 29

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1373	160	8	37.0	0.95	0.29	251	3.48
LINK_1374	215	8	64.0	1.15	0.38	259	3.46
LINK_1375	330	8	64.0	1.04	0.41	226	3.46
LINK_1376	285	8	67.0	1.12	0.41	245	3.46
LINK_1377	190	8	125.0	1.42	0.55	265	3.42
LINK_1378	215	8	125.0	1.31	0.59	234	3.42
LINK_1379	265	24	1501.0	2.63	0.42	5080	2.65
LINK_1380	289	8	110.0	1.42	0.49	281	3.43
LINK_1381	318	8	583.0	3.72	1.00	236	2.87
LINK_1382	288	8	583.0	3.72	1.00	250	2.87
LINK_1383	308	8	583.0	3.72	1.00	248	2.87
LINK_1384	289	8	583.0	3.72	1.00	139	2.87
LINK_1385	293	21	91.0	1.16	0.14	3172	3.44
LINK_1386	192	8	371.0	2.37	1.00	245	3.03
LINK_1387	303	8	371.0	2.37	1.00	192	3.03
LINK_1388	305	8	67.0	1.03	0.43	220	3.46
LINK_1389	179	8	7.0	0.54	0.16	203	3.50
LINK_1390	340	8	14.0	0.69	0.20	224	3.49
LINK_1391	298	8	46.0	0.93	0.35	223	3.47
LINK_1392	176	8	8.0	0.56	0.17	205	3.50
LINK_1393	338	8	16.0	0.72	0.21	229	3.49
LINK_1394	305	8	23.0	0.77	0.26	220	3.49
LINK_1395	176	8	8.0	0.55	0.16	205	3.50
LINK_1396	336	8	15.0	0.71	0.21	230	3.49
LINK_1397	462	8	15.0	0.72	0.21	233	3.49
LINK_1398	268	8	3.0	0.48	0.10	242	3.50
LINK_1399	462	8	10.0	0.64	0.17	233	3.49
LINK_1400	181	8	2.0	0.40	0.09	225	3.50
LINK_1401	452	8	15.0	0.72	0.20	236	3.49
LINK_1402	102	8	3.0	0.51	0.09	269	3.50
LINK_1403	268	8	18.0	0.77	0.22	242	3.49
LINK_1404	268	8	33.0	0.90	0.28	242	3.48
LINK_1405	284	8	51.0	0.95	0.37	221	3.47
LINK_1406	156	8	14.0	0.86	0.17	308	3.49
LINK_1407	167	8	14.0	0.86	0.17	309	3.49
LINK_1408	218	8	7.0	0.68	0.14	278	3.50
LINK_1409	295	8	7.0	0.62	0.15	243	3.50
LINK_1410	539	8	20.0	0.92	0.21	296	3.49
LINK_1411	126	8	42.0	1.05	0.30	274	3.47
LINK_1412	367	8	53.0	1.06	0.35	255	3.47
LINK_1413	242	8	61.0	0.88	0.45	182	3.46
LINK_1414	188	8	64.0	1.24	0.36	291	3.46
LINK_1415	133	8	25.0	0.93	0.25	271	3.48
LINK_1416	270	8	25.0	0.86	0.26	248	3.48
LINK_1417	287	8	12.0	0.69	0.19	238	3.49
LINK_1418	178	8	8.0	0.65	0.15	254	3.50
LINK_1419	179	8	15.0	0.77	0.20	257	3.49
LINK_1420	225	8	22.0	0.78	0.25	226	3.49
LINK_1421	355	8	28.0	0.92	0.26	260	3.48





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 30

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1422	328	8	38.0	0.89	0.31	227	3.48
LINK_1423	1070	18	91.0	1.16	0.17	2113	3.44
LINK_1424	1180	18	91.0	1.16	0.17	2113	3.44
LINK_1425	796	18	91.0	1.16	0.17	2112	3.44
LINK_1426	946	18	91.0	1.16	0.17	2112	3.44
LINK_1427	0	0	354.0	0.00	0.00	0	3.04
LINK_1428	307	12	24.0	0.84	0.16	720	3.48
P_LINK_1429	0	**	24.0	0.00	0.00	0	3.48
LINK_1430	650	8	549.0	3.51	1.00	242	2.89
LINK_1431	442	8	549.0	0.20	0.00	0	2.89
LINK_1432	892	8	549.0	3.51	1.00	243	2.89
LINK_1433	190	8	549.0	3.51	1.00	243	2.89
LINK_1434	684	8	53.0	1.03	0.36	243	3.47
LINK_1435	125	6	91.0	1.03	0.00	0	3.44
LINK_1436	429	10	41.0	0.96	0.25	439	3.47
LINK_1437	403	10	74.0	1.11	0.31	442	3.45
LINK_1438	292	10	99.0	1.21	0.36	443	3.44
LINK_1439	141	10	99.0	1.21	0.37	439	3.44
LINK_1440	0	**	99.0	0.00	0.00	0	3.44
LINK_1441	153	6	99.0	1.13	0.00	0	3.44
D_LINK_1442	7595	21	5186.0	4.80	0.00	0	2.30
D_LINK_1443	****	21	3148.0	2.92	0.00	0	2.43
D_LINK_1444	1826	0	5257.0	3.40	0.56	0	2.30
P_LINK_1445	0	**	1475.0	0.00	0.00	0	2.65
P_LINK_1446	0	**	5186.0	0.00	0.00	0	2.30
P_LINK_1447	0	**	3148.0	0.00	0.00	0	2.43
D_LINK_1448	2400	0	311.0	1.66	0.52	0	3.08
D_LINK_1449	2400	0	313.0	1.66	0.52	0	3.07
D_LINK_1450	1340	0	313.0	1.66	0.52	0	3.07
D_LINK_1451	1340	0	583.0	1.95	0.53	0	2.87
D_LINK_1452	1566	0	0.0	0.00	0.00	0	3.50
D_LINK_1453	2683	0	282.0	1.61	0.49	0	3.10
D_LINK_1454	2614	0	1078.0	2.29	0.57	0	2.73
D_LINK_1455	2523	0	355.0	1.73	0.56	0	3.04
D_LINK_1456	2480	0	218.0	1.53	0.56	0	3.25
D_LINK_1457	645	0	414.0	1.81	0.61	0	2.99
D_LINK_1458	1835	0	0.0	0.00	0.00	0	3.50
D_LINK_1459	1643	0	353.0	1.90	0.51	0	3.04
D_LINK_1460	1240	0	0.0	0.00	0.00	0	3.50
D_LINK_1461	1019	0	6190.0	3.56	0.61	0	2.24
D_LINK_1462	988	0	6190.0	3.56	0.61	0	2.24
D_LINK_1463	1306	0	6190.0	3.56	0.61	0	2.24
D_LINK_1464	1268	0	190.0	1.47	0.52	0	3.32
D_LINK_1465	1345	0	6079.0	3.56	0.61	0	2.25
D_LINK_1466	1367	0	5807.0	3.50	0.59	0	2.26
D_LINK_1467	1288	0	5574.0	3.43	0.57	0	2.28
D_LINK_1468	825	0	5204.0	3.42	0.64	0	2.30
D_LINK_1469	1900	0	300.0	1.65	0.51	0	3.08
D_LINK_1470	2401	0	180.0	1.44	0.50	0	3.34





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 31

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
D_LINK_1471	1415	0	180.0	1.44	0.50	0	3.34
D_LINK_1472	2401	0	197.0	1.49	0.53	0	3.30
D_LINK_1473	1328	0	346.0	1.71	0.55	0	3.05
D_LINK_1474	2401	0	193.0	1.47	0.52	0	3.31
D_LINK_1475	1321	0	501.0	1.85	0.48	0	2.92
D_LINK_1476	518	0	306.0	1.65	0.51	0	3.08
D_LINK_1477	2718	0	306.0	1.65	0.51	0	3.08
D_LINK_1478	2270	0	220.0	1.53	0.56	0	3.25
D_LINK_1479	3015	0	1475.0	16.74	0.00	0	2.65
D_LINK_1480	1291	0	113.0	1.34	0.52	0	3.43
D_LINK_1481	2400	0	239.0	1.58	0.59	0	3.20
D_LINK_1482	1768	0	329.0	1.68	0.53	0	3.06
D_LINK_1483	2400	0	219.0	1.53	0.56	0	3.25
D_LINK_1484	1519	0	1044.0	2.27	0.56	0	2.74
D_LINK_1485	2520	0	601.0	1.95	0.53	0	2.87
D_LINK_1486	1325	0	459.0	1.80	0.46	0	2.95
D_LINK_1487	1891	0	190.0	1.46	0.51	0	3.32
D_LINK_1488	935	0	116.0	1.35	0.53	0	3.42
D_LINK_1489	1330	0	334.0	1.70	0.54	0	3.06
D_LINK_1490	1410	0	174.0	1.43	0.49	0	3.35
D_LINK_1491	2444	0	174.0	1.43	0.49	0	3.35
D_LINK_1492	4873	0	1769.0	2.59	0.59	0	2.60
D_LINK_1493	2400	0	325.0	1.68	0.53	0	3.06
D_LINK_1494	1237	0	325.0	1.68	0.53	0	3.06
D_LINK_1495	2400	0	390.0	1.78	0.59	0	3.01
D_LINK_1496	1484	0	3027.0	2.94	0.55	0	2.44
D_LINK_1497	2572	0	300.0	1.65	0.51	0	3.08
D_LINK_1498	2401	0	372.0	1.75	0.57	0	3.03
D_LINK_1499	1325	0	2527.0	2.83	0.59	0	2.48
D_LINK_1500	3857	0	247.0	1.59	0.60	0	3.18
D_LINK_1501	2397	0	341.0	1.70	0.54	0	3.05
D_LINK_1502	1338	0	2100.0	2.67	0.53	0	2.53
D_LINK_1503	2644	0	192.0	1.47	0.52	0	3.31
D_LINK_1504	2431	0	177.0	1.44	0.50	0	3.35
D_LINK_1505	2397	0	514.0	1.87	0.49	0	2.91
D_LINK_1506	1389	0	1568.0	2.49	0.55	0	2.64
D_LINK_1507	2398	0	431.0	1.84	0.63	0	2.98
D_LINK_1508	2479	0	1085.0	2.29	0.57	0	2.73
D_LINK_1509	2633	0	1085.0	2.29	0.57	0	2.73
D_LINK_1510	1818	0	441.0	1.86	0.64	0	2.97
D_LINK_1511	1461	0	187.0	1.46	0.51	0	3.32
D_LINK_1512	1425	0	97.0	1.28	0.48	0	3.44
D_LINK_1513	1289	0	96.0	1.28	0.48	0	3.44
D_LINK_1514	2689	0	96.0	1.41	0.44	0	3.44
O_LINK_1515	50	12	3028.0	8.59	0.00	0	2.44
D_LINK_1516	1077	0	582.0	1.95	0.53	0	2.87
D_LINK_1517	1378	0	582.0	1.96	0.52	0	2.87
D_LINK_1518	1967	0	170.0	1.41	0.48	0	3.36
D_LINK_1519	1551	0	151.0	1.47	0.62	0	3.40



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 32

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
D_LINK_1520	1190	0	194.0	1.47	0.52	0	3.31
D_LINK_1521	2400	0	178.0	1.44	0.50	0	3.34
D_LINK_1522	1345	0	319.0	1.66	0.52	0	3.07
D_LINK_1523	2400	0	183.0	1.44	0.50	0	3.33
D_LINK_1524	1345	0	584.0	1.95	0.53	0	2.87
P_LINK_1525	0	**	3235.0	0.00	0.00	0	2.43
D_LINK_1526	2400	0	185.0	1.46	0.51	0	3.33
D_LINK_1527	1294	0	880.0	2.16	0.51	0	2.77
D_LINK_1528	2411	0	538.0	1.89	0.50	0	2.89
D_LINK_1529	1461	0	1430.0	2.44	0.53	0	2.66
D_LINK_1530	2560	0	1430.0	2.44	0.53	0	2.66
D_LINK_1531	136	0	1430.0	2.44	0.53	0	2.66
D_LINK_1532	2632	0	194.0	1.47	0.52	0	3.31
D_LINK_1533	1341	0	194.0	1.47	0.52	0	3.31
D_LINK_1534	2601	0	198.0	1.49	0.53	0	3.30
D_LINK_1535	1341	0	361.0	1.73	0.56	0	3.04
D_LINK_1536	2600	0	200.0	1.49	0.53	0	3.30
D_LINK_1537	1301	0	520.0	1.89	0.50	0	2.90
D_LINK_1538	2600	0	356.0	1.73	0.56	0	3.04
D_LINK_1539	1315	0	826.0	2.11	0.49	0	2.79
D_LINK_1540	2596	0	332.0	1.70	0.54	0	3.06
D_LINK_1541	1340	0	332.0	1.70	0.54	0	3.06
D_LINK_1542	2600	0	342.0	1.70	0.54	0	3.05
D_LINK_1543	1340	0	630.0	1.99	0.55	0	2.85
D_LINK_1544	2600	0	340.0	1.70	0.54	0	3.05
D_LINK_1545	1299	0	918.0	2.18	0.52	0	2.77
D_LINK_1546	1318	0	918.0	2.18	0.52	0	2.77
D_LINK_1547	2790	0	1239.0	5.75	0.58	0	2.70
D_LINK_1548	2200	0	307.0	1.65	0.51	0	3.08
D_LINK_1549	1087	0	307.0	1.65	0.51	0	3.08
D_LINK_1550	2200	0	254.0	1.61	0.61	0	3.16
D_LINK_1551	2689	0	200.0	1.49	0.53	0	3.29
D_LINK_1552	1078	0	3282.0	3.03	0.58	0	2.42
D_LINK_1553	2682	0	169.0	1.41	0.48	0	3.36
D_LINK_1554	412	0	3392.0	3.06	0.59	0	2.42
D_LINK_1555	1169	0	3392.0	3.06	0.59	0	2.42
D_LINK_1556	2674	0	196.0	1.47	0.52	0	3.30
D_LINK_1557	1344	0	3521.0	3.09	0.60	0	2.41
D_LINK_1558	2669	0	193.0	1.47	0.52	0	3.31
D_LINK_1559	1498	0	3646.0	3.12	0.61	0	2.40
D_LINK_1560	2659	0	226.0	1.55	0.57	0	3.23
D_LINK_1561	1180	0	3794.0	3.16	0.63	0	2.38
D_LINK_1562	2646	0	199.0	1.49	0.53	0	3.30
D_LINK_1563	1473	0	3921.0	3.19	0.64	0	2.37
D_LINK_1564	2666	0	411.0	1.81	0.61	0	3.00
D_LINK_1565	1362	0	4206.0	3.22	0.57	0	2.35
D_LINK_1566	2627	0	362.0	1.73	0.56	0	3.03
D_LINK_1567	1163	0	4460.0	3.28	0.59	0	2.34
D_LINK_1568	2632	0	182.0	1.44	0.50	0	3.34



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
SEWER PIPELINE FLOW DATA REPORT  
FILE RUN: SY\_URUN1 ULTIMATE SYSTEM

10/07/94  
PAGE 33

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
D_LINK_1569	1455	0	4576.0	3.28	0.59	0	2.33
D_LINK_1570	2610	0	199.0	1.49	0.53	0	3.30
D_LINK_1571	1355	0	4703.0	3.32	0.60	0	2.33
D_LINK_1572	2600	0	208.0	1.50	0.54	0	3.28
D_LINK_1573	1308	0	4836.0	3.37	0.62	0	2.32
D_LINK_1574	2600	0	197.0	1.49	0.53	0	3.30
D_LINK_1575	2654	0	430.0	1.84	0.63	0	2.98
D_LINK_1576	1353	0	4960.0	3.39	0.63	0	2.31
D_LINK_1578	2200	0	290.0	1.63	0.50	0	3.09
D_LINK_1579	2198	0	317.0	1.66	0.52	0	3.07
D_LINK_1580	2199	0	199.0	1.49	0.53	0	3.30
D_LINK_1581	2203	0	131.0	1.41	0.57	0	3.42
D_LINK_1582	2189	0	461.0	1.89	0.64	0	2.95





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DEPTH GREATER THAN 95% DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SEWER COLLECTION SYSTEM

10/11/94  
 PAGE 1

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1	509	27	8912.0	4.99	1.00	5559	2.07
LINK_2	405	27	8703.0	4.88	1.00	3978	2.09
LINK_4	381	15	2703.0	4.91	1.00	1163	2.47
LINK_5	367	15	2694.0	4.89	1.00	1447	2.47
LINK_6	448	15	2694.0	4.89	1.00	1373	2.47
LINK_7	477	15	2694.0	4.89	1.00	1145	2.47
LINK_8	715	15	2417.0	4.39	1.00	1210	2.49
LINK_9	287	15	2550.0	4.63	1.00	1732	2.48
LINK_10	348	15	2527.0	4.59	1.00	1340	2.48
LINK_11	296	15	2379.0	4.32	1.00	1362	2.49
LINK_12	405	15	2379.0	4.32	1.00	1164	2.49
LINK_13	149	12	1949.0	5.53	1.00	557	2.56
LINK_14	183	12	1923.0	5.46	1.00	749	2.57
LINK_15	377	12	2054.0	5.83	1.00	838	2.54
LINK_16	377	12	2048.0	5.81	1.00	710	2.54
LINK_17	173	12	2048.0	5.81	1.00	122	2.54
LINK_18	220	12	1983.0	5.63	1.00	794	2.55
LINK_19	133	12	1881.0	5.34	1.00	606	2.57
LINK_20	220	12	1705.0	4.84	1.00	611	2.61
LINK_21	25	12	1493.0	4.24	1.00	1110	2.65
LINK_22	34	12	1493.0	4.24	1.00	275	2.65
LINK_23	284	12	1411.0	4.00	1.00	807	2.66
LINK_25	225	12	1081.0	3.07	1.00	956	2.73
LINK_27	242	12	1356.0	3.85	1.00	714	2.67
LINK_28	65	12	1334.0	3.78	1.00	1209	2.68
LINK_29	458	12	595.0	1.69	1.00	560	2.87
LINK_32	242	12	595.0	1.69	1.00	525	2.87
LINK_33	73	8	275.0	1.75	1.00	156	3.11
LINK_34	450	12	595.0	1.69	1.00	575	2.87
LINK_36	355	12	562.0	1.59	1.00	417	2.88
LINK_47	465	27	5952.0	3.34	1.00	5559	2.26
LINK_49	616	27	6214.0	3.48	1.00	1123	2.24
LINK_50	505	27	6214.0	3.48	1.00	5615	2.24
LINK_51	415	27	6364.0	3.57	1.00	3870	2.23
LINK_52	188	27	6364.0	3.57	1.00	2273	2.23
LINK_54	373	27	6364.0	3.57	1.00	5399	2.23
LINK_55	435	27	6364.0	3.57	1.00	4432	2.23
LINK_59	346	27	6418.0	3.60	1.00	6357	2.23
LINK_60	87	27	6468.0	3.62	1.00	5590	2.23
LINK_61	479	22	4315.0	3.64	1.00	3742	2.35
LINK_62	73	22	4315.0	3.64	1.00	945	2.35
LINK_63	66	22	4315.0	3.64	1.00	2980	2.35
LINK_65	840	27	4410.0	2.47	1.00	3936	2.34
LINK_66	1205	27	4973.0	2.79	1.00	3613	2.31
LINK_67	200	27	5873.0	3.29	1.00	5574	2.26
LINK_73	184	12	616.0	1.75	1.00	515	2.86
LINK_76	241	12	705.0	2.00	1.00	677	2.82
LINK_79	207	12	577.0	1.64	1.00	546	2.88
LINK_82	614	10	371.0	1.51	1.00	367	3.03



CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DEPTH GREATER THAN 95% DATA REPORT  
 FILE RUN: SY\_URUN1 ULTIMATE SEWER COLLECTION SYSTEM

10/11/94  
 PAGE 2

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_85	359	8	169.0	1.08	1.00	167	3.36
LINK_89	351	8	243.0	1.55	1.00	203	3.19
LINK_93	373	18	1814.0	2.29	1.00	1528	2.59
LINK_94	207	18	1844.0	2.33	1.00	1829	2.58
LINK_119	325	12	676.0	1.92	1.00	333	2.83
LINK_121	248	12	792.0	2.25	1.00	734	2.79
LINK_122	235	12	795.0	2.26	1.00	739	2.79
LINK_123	300	12	807.0	2.29	1.00	807	2.79
LINK_124	118	12	808.0	2.29	1.00	532	2.79
LINK_127	415	18	2281.0	2.88	1.00	1485	2.50
LINK_128	500	18	2281.0	2.88	1.00	1582	2.50
LINK_130	416	18	2281.0	2.88	1.00	613	2.50
LINK_134	413	18	2126.0	2.68	1.00	1115	2.53
LINK_135	452	18	2126.0	2.68	1.00	1043	2.53
LINK_137	178	18	2164.0	2.73	1.00	614	2.52
LINK_139	388	18	2205.0	2.78	1.00	1399	2.51
LINK_140	345	18	2235.0	2.82	1.00	1763	2.50
LINK_141	409	18	2281.0	2.88	1.00	1855	2.50
LINK_143	141	18	2205.0	2.78	1.00	1867	2.51
LINK_146	416	15	1792.0	3.25	1.00	1453	2.59
LINK_147	364	15	1843.0	3.35	1.00	1345	2.58
LINK_148	358	15	1971.0	3.58	1.00	1229	2.56
LINK_149	386	15	2030.0	3.69	1.00	1155	2.54
LINK_150	368	15	2083.0	3.78	1.00	1212	2.53
LINK_151	369	15	2121.0	3.85	1.00	969	2.53
LINK_152	379	18	2158.0	2.72	1.00	1610	2.52
LINK_235	288	8	426.0	2.72	1.00	136	2.98
LINK_236	333	8	583.0	3.72	1.00	195	2.87
LINK_237	321	8	583.0	3.72	1.00	201	2.87
LINK_246	257	8	263.0	1.68	1.00	260	3.14
LINK_253	317	8	303.0	1.93	1.00	248	3.08
LINK_254	130	8	315.0	2.01	1.00	158	3.07
LINK_256	239	8	360.0	2.30	1.00	161	3.04
LINK_257	156	8	403.0	2.57	1.00	272	3.00
LINK_258	184	8	403.0	2.57	1.00	237	3.00
LINK_288	349	8	239.0	1.52	1.00	231	3.20
LINK_289	484	8	239.0	1.52	1.00	217	3.20
LINK_320	320	8	160.0	1.02	1.00	91	3.38
LINK_321	333	8	267.0	1.71	1.00	235	3.13
LINK_323	295	8	267.0	1.71	1.00	192	3.13
LINK_324	301	8	267.0	1.71	1.00	243	3.13
LINK_325	511	8	414.0	2.65	1.00	232	2.99
LINK_326	490	8	435.0	2.78	1.00	225	2.97
LINK_508	169	10	293.0	1.20	1.00	273	3.09
LINK_581	262	8	232.0	1.48	1.00	220	3.22
LINK_582	345	8	236.0	1.50	1.00	187	3.21
LINK_583	234	8	261.0	1.67	1.00	204	3.15
LINK_584	262	8	261.0	1.67	1.00	174	3.15
LINK_608	196	10	248.0	1.01	1.00	244	3.18





CITY OF EL CENTRO SEWER MASTER PLAN UPDATE  
 SEWER PIPELINE FLOW DEPTH GREATER THAN 95% DATA REPORT  
 FILE RUN: SY\_UNR1 ULTIMATE SEWER COLLECTION SYSTEM

10/11/94  
 PAGE 3

PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_637	216	8	1094.0	6.98	1.00	274	2.73
LINK_641	221	8	1204.0	7.68	1.00	356	2.70
LINK_642	552	8	1204.0	7.68	1.00	249	2.70
LINK_910	193	8	331.0	2.11	1.00	55	3.06
LINK_911	201	8	348.0	2.22	1.00	307	3.05
LINK_912	369	8	393.0	2.51	1.00	251	3.01
LINK_913	189	8	416.0	2.66	1.00	177	2.99
LINK_914	159	8	473.0	3.02	1.00	299	2.94
LINK_936	366	8	222.0	1.42	1.00	203	3.24
LINK_937	376	8	272.0	1.74	1.00	221	3.12
LINK_957	313	8	221.0	1.41	1.00	219	3.25
LINK_1089	485	8	293.0	1.87	1.00	230	3.09
LINK_1090	534	8	336.0	2.15	1.00	212	3.06
LINK_1091	224	8	336.0	2.15	1.00	244	3.06
LINK_1092	262	8	336.0	2.15	1.00	196	3.06
LINK_1094	125	8	336.0	2.15	1.00	248	3.06
LINK_1140	302	14	751.0	1.57	1.00	311	2.80
LINK_1143	33	8	334.0	2.13	1.00	328	3.06
LINK_1179	183	12	1435.0	4.07	1.00	795	2.66
LINK_1180	245	12	1435.0	4.07	1.00	993	2.66
LINK_1181	433	12	1347.0	3.82	1.00	905	2.68
LINK_1182	894	12	1320.0	3.74	1.00	881	2.68
LINK_1183	323	12	1024.0	2.91	1.00	735	2.74
LINK_1184	257	12	1024.0	2.91	1.00	793	2.74
LINK_1227	377	8	136.0	0.87	1.00	105	3.41
LINK_1232	56	15	1613.0	2.93	1.00	388	2.63
LINK_1233	156	15	1613.0	2.93	1.00	901	2.63
LINK_1234	198	15	1607.0	2.92	1.00	990	2.63
LINK_1235	154	15	1576.0	2.86	1.00	994	2.63
LINK_1236	199	15	1561.0	2.83	1.00	1366	2.64
LINK_1237	188	15	1534.0	2.79	1.00	994	2.64
LINK_1238	167	15	1474.0	2.68	1.00	927	2.65
LINK_1239	206	15	1438.0	2.61	1.00	1163	2.66
LINK_1240	195	15	1387.0	2.52	1.00	998	2.67
LINK_1241	365	15	1331.0	2.42	1.00	997	2.68
LINK_1242	354	15	1273.0	2.31	1.00	977	2.69
LINK_1243	358	15	1194.0	2.17	1.00	1139	2.70
LINK_1244	361	15	1016.0	1.84	1.00	991	2.74
LINK_1247	242	15	914.0	1.66	1.00	699	2.77
LINK_1261	224	12	1439.0	4.08	1.00	442	2.66
LINK_1263	138	27	8888.0	4.98	1.00	6388	2.07
LINK_1381	318	8	583.0	3.72	1.00	236	2.87
LINK_1382	288	8	583.0	3.72	1.00	250	2.87
LINK_1383	308	8	583.0	3.72	1.00	248	2.87
LINK_1384	289	8	583.0	3.72	1.00	139	2.87
LINK_1386	192	8	371.0	2.37	1.00	245	3.03
LINK_1387	303	8	371.0	2.37	1.00	192	3.03
LINK_1430	650	8	549.0	3.51	1.00	242	2.89
LINK_1432	892	8	549.0	3.51	1.00	243	2.89



PIPELINE LOCATION	SYSTEM LENGTH (ft)	PIPE SIZE (in)	AVERAGE FLOW (GPM)	FLOW VELOCITY (FPS)	D OVER D (IN/IN)	MAXIMUM CAPACITY (GPM)	LINK PEAK FACTOR
LINK_1433	190	8	549.0	3.51	1.00	243	2.89



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